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Descriptions of WHOI Sediment Cores, VOLUME 8

Edited by

P.B. Mills and J.E. Broda

May 1993

Technical Report

Funding was provided by the National Science Foundation under Contract Nos. OCE88-00693 and OCE 1901734.

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P.B. Mills and J.E. Broda

Woods Hole Oceanographic Institution Woods Hole, Massachusetts 02543

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G. Michael Purdy, Chair

Department of Geology and Geophysics

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ABSTRACT

This report supplements Volumes 1 - 7 of the core descriptions published previously in this sequence (Johnson and Driscoll, 1975; 1977; Broda, Franks, and Keith, 1981; Broda and Andrew, 1985). It contains visual descriptions and smear slide analyses for several suites of cores received in the geological samples collection of the Woods Hole Oceanographic Institution between mid-1984 and late 1989. Approximately 220 sample localities from the North Atlantic, South Atlantic, Mediterranean and Pacific Oceans are represented. Charts of ships tracks for cruises included in this report and updated computer listings of all cores in the W.H.O.I. collection are also presented.

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INTRODUCTION

A. Scope and Format of this Report.

KC-

In the past decade we have prepared and distributed seven volumes of W.H.O.I. Technical Reports (Johnson and Driscoll, 1975; 1977), (Broda, Franks and Keith, 1981) (Broda and Andrew, 1985) containing descriptive and logistical data for cores comprising the W.H.O.I. geological samples collection. The present report, the eighth volume in this series, includes visual core descriptions and smear slide analysis for several groups of W.H.O.I. cores obtained between mid-1984 and late 1989.

This compilation represents approximately 220 coring stations from the Atlantic, Mediterranean and Pacific Oceans. Core descriptions have been grouped according to ship and cruise number and are arranged chronologically for each cruise. A computer listing of the cores taken on each cruise, together with a chart indicating the ship's track, precedes the core descriptions.

B. Nomenclature

The numbers assigned to the geological samples are followed by a letter (or letters) to indicate the method used in obtaining the samples. The letters which have been used are:

GC -	Gravity Core
PC -	Piston Core
PG -	Pilot Gravity Core
GPC -	Giant Piston Core (also JPC)
GGC -	Giant Gravity Core
BC -	Box Core
SC-	Soutar Box Core
CC -	Camera (Pogo) Core
FF -	Free-Fall Core
GR -	Van Veen Grab

Kasten Core

We have retained the original station numbers and core numbers insofar as possible. A gap in the core or station numbering sequence for any given expedition indicates either that the core is not now in the W.H.O.I. geological collection, or that such a core was never obtained due to either equipment malfunction or the lack of recovery of sample material. In some instances, the letter designations for the type of sampling device have been amended or deleted for purposes of clarity and consistency within the collection. For example, a piston core originally labeled "10a" is now labeled as a "10a PC." The "PC" has been added to identify it as a piston core, and the "a" has been retained to insure proper correlation with the original coring records.

All cores in the W.H.O.I. collection except the giant piston cores and Kasten cores were acquired using sampling equipment lined with polycarbonate clear plastic tubing. These cores have been split and stored at room temperature in high impact styrene D-tubes, with moisture-saturated potting foam sealed inside each D-tube to retard the loss of

moisture from the cores. The giant gravity cores (GGC's) were obtained with thick walled PVC as a core liner and core barrel. These cores were recovered vertically and kept that way until dewatered and capped. Core disturbance was minimized by this process and the surface interval in each giant gravity core should be especially well preserved.

We have attempted to apply uniform procedures in completing the core descriptions and microscopic analyses of smear slides. A more detailed discussion of the WHOI procedures for shipboard core handling, core archiving, core describing, and core photography may be found in the following reports:

- (1) Johnson, D. A. and Driscol¹ A. H. (1972), "The Curating of WHOI's Geological Collections", Woods Hole Oceanogr. Inst. Tech. Memorandum WHOI-2-72, 20 pp.
- (2) Mountain, G. S. (1973), Procedures for Description of WHOI Sediment Cores", Woods Hole Oceanogr. Inst. Tech. Memorandum WHOI-7-73, 25 pp.
- (3) Shepherd, F. C. (1976), "Procedures for Photographing WHOI Sediment Cores", unpublished MS.

C. Summary of Description Procedures and Sediment Classification System

The following is a summary of the descriptive procedures used in preparing this report; a more complete discussion is included in Volume 1 of this series (Johnson and Driscoll, 1975, pp. 7-21).

1. Visual Description

The entire core is laid out in the correct order of sections, and proper labeling is verified. The core is then subdivided into units, which may be distinguished from each other by lithology, color, texture, or special features. Contacts between units are classified as gradational (G) or sharp (S). Sharp bottom contacts are further described as horizontal (H), inclined (I), mottled, irregular, or curved (convex upward or downward). The color of the unit is described by comparison with, and reference to, the Munsell Soil Color Charts. When more than one color is dominant, excluding mottles or burrows, each noteworthy color is recorded. When a multitude of fine laminations is present, only the dominant color is recorded.

Textural notation includes descriptive parameters such as grain size and the amount of dehydration, compaction, and lithification. Grain size parameters used are: lutite ($<4\mu$), silt (4μ - 62μ), sand (62μ - 2mm), and gravel (>2mm). Microscopic examination of smear slides is used to determine the lithology and relative abundance of silt and sand sized components. Sand and gravel are distinguishable through a magnifying glass and to the unaided eye. Estimation of sizes within the sand range is accomplished by comparison with vials of sieved, standardized sands.

Additional observations fall under the heading of "special features." Graded bedding may be observed in silt-sized or coarser-grained sediment. The range in grain size and the depth interval over which grading occurs are noted. Graded beds are often burrowed in the fine upper section and have sharp, eroded bottom contacts. Many graded beds may be turbidites, but this generic term is not used in the description of graded beds.

Cross-bedding is rarely observed and is generally restricted to silt or sand sized sediment. Beds of alternating colors or textures which truncate each other on a scale as small as one mm are described as cross bedding. Laminations and microlaminations (up to 1 mm thickness) are observed and noted.

Poor core recovery, washed sediment, or flow-in are also included as special features. Flow-in may occur in piston cores, and is usually found at the bottom of the core, but may occasionally occur in upper sections as well. It results from insufficient core penetration and subsequent sucking action of the piston upon core pull-out. When flow-in is suspected but cannot be demonstrated visually, verification can often be obtained by X-radiography.

2. Smear slide analysis

Smear slides have been prepared and analyzed from the top and bottom of each core, at intervals of approximately one meter within the core, and/or from each major lithologic unit when closer sampling is required. The smear slides are examined through a polarizing binocular microscope, commonly with a magnification of 80X - 320X. The slide is first scanned at low power for a general indication of its composition. The describer then estimates the percentages of the various components, using standardized smear slides and periodic comparisons between describers in order to give some assurance that percentages are being estimated with a degree of consistency. However, the data tabulated on the smear slide forms should be used <u>only</u> qualitatively as an indication of the relative proportion of various components, and how the relative abundance of each component appears to change within a given core.

The following sediment components represent those most commonly encountered in smear slide analysis, and are used in identifying the sediment type:

Inorganic Components	Biogenic Com	ponents
Detrital grains Micronodules Zeolites Volcanic shards Pyrite Clay	Calcareous Foraminifera Nannofossils Discoasters Pteropods Others	Siliceous Diatoms Radiolaria Sponges Silicoflagellates

3. Designation of sediment type

A sediment name is assigned to each smear slide examined, following the sediment classification scheme summarized in Table 1 and in Figures 1a-1b. These sediment names are recorded on the smear slide description sheet, and serve as a basis for designating one or more sediment types for each lithologic unit.

Each principal lithologic unit is described on the visual description sheets, using a consistent format. An example is shown below:

	Descriptive Terms	<u>Explanation</u>
0-112	CALC OOZE 10 YR 6/4 light yellowish brown common dark brown mottling throughout firm, slightly silty lutite 2 Mn nodules, 2 cm diam., 95-100 cm. S, inclined 10°	Depth interval (cm) Sediment type Color (Munsell Notation) Mottling (if present) Texture Special features Basal contact

In the lithologic log on the left side of the visual description sheets, stylized symbols are used to summarize the lithology and any special features which are readily observed macroscopically. A key to the symbols used in the lithologic logs is presented in Figure 2.

TABLE 1: Sediment Classification System

I. MAJOR SEDIMENT NAME: Based on relative proportion of biogenic material (CACO₃ + SiO₂) and inorganic material.

Oozes: Total biogenic material > 30%

Calcareous ooze: CaCO₃ >> SiO₂

Calcareous-siliceous ooze: $CaCO_3 > SiO_2$, with $SiO_2 > 5\%$ Siliceous-calcareous ooze: $SiO_2 > CaCO_3$, with $CaCO_3 > 5\%$

Siliceous ooze: $SiO_2 \gg CaCO_3$

Clays: Total biogenic material < 30%

Highly calcareous clay: 15% ≤ CaCO₃ < 30% siliceous SiO₂

Calcareous clay: 5% ≤ CaCO₃ < 15% Siliceous SiO₂

Slightly calcareous clay: 1% \leq CaCO₃ < 5% siliceous

II. SECONDARY SEDIMENT NAMES: Included when silt or sand sized inorganic components are present in excess of 15%.

15% < % inorganic components < 30%

detrital grains Mn micronodules

(MAJOR SEDIMENT NAME) with zeolites

volcanic ash

etc.

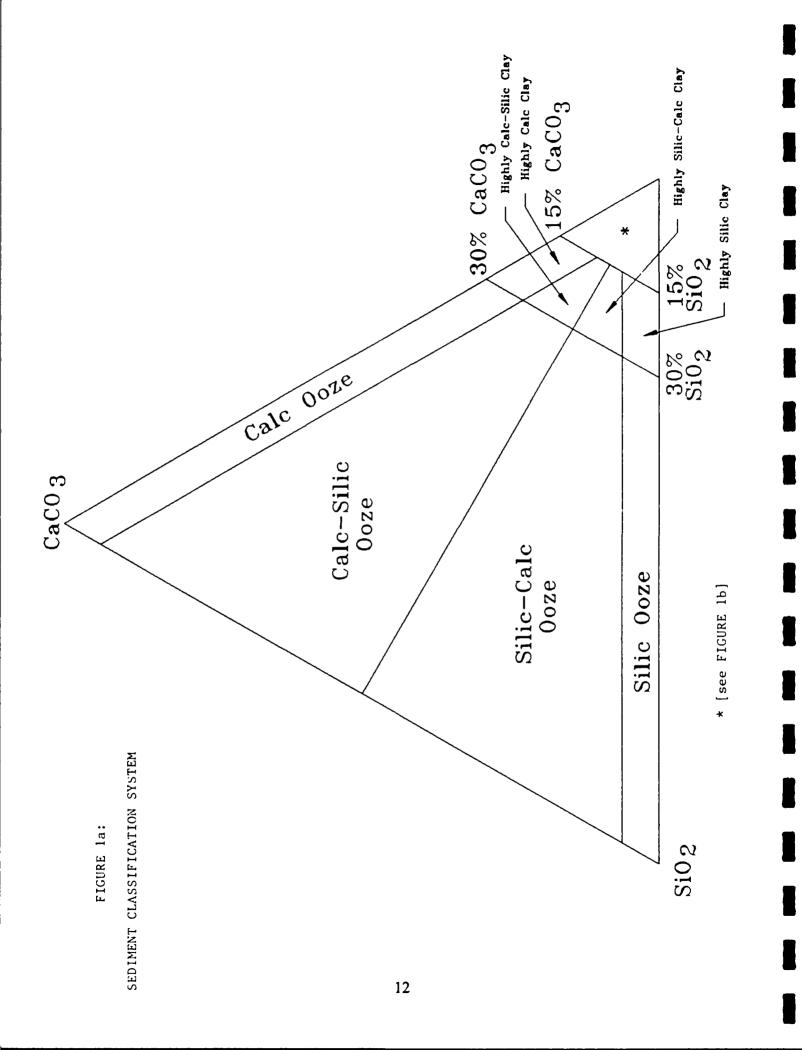
% inorganic components ≥ 30%

detrital grains
Mn micronodules

(MAJOR SEDIMENT NAME) / zeol

zeolites volcanic ash

etc.



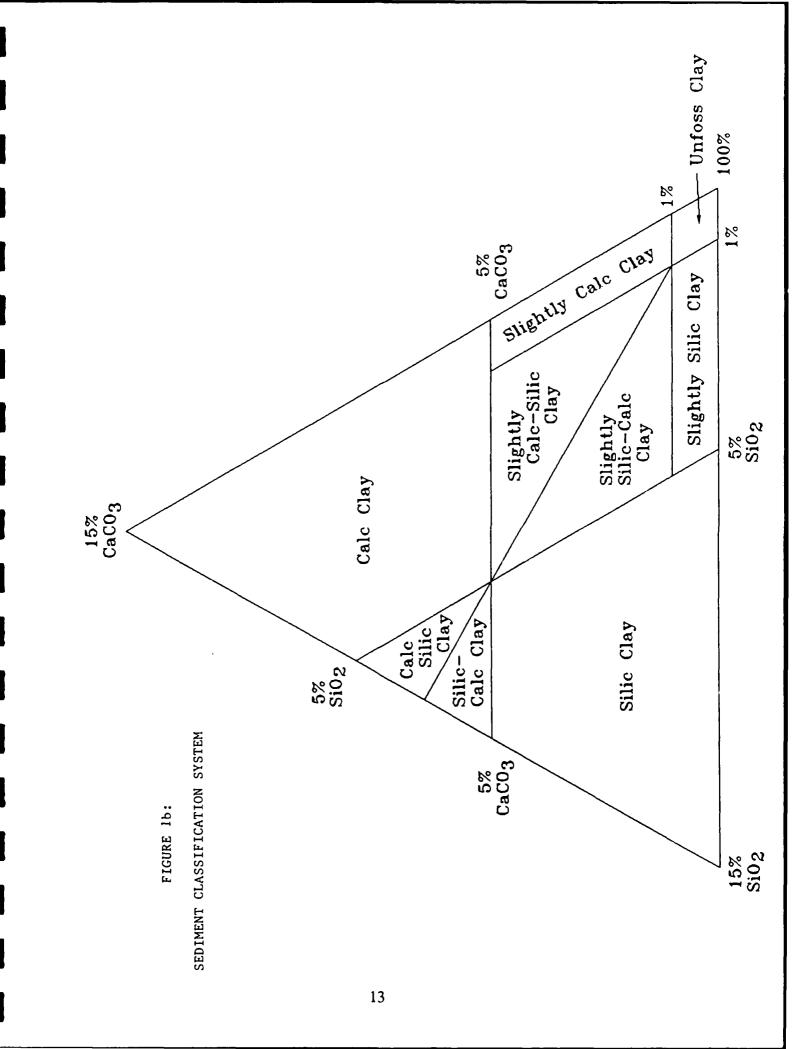


FIGURE 2: Lithologic Symbols

Lithologic Log	Lithologic Symbols	
 	Calcareous ooze	
- <u>-</u> - <u>-</u> - <u>-</u> -	Foram sand	
	Siliceous ooze	
	Unit Contact Mark	Pelagic Sediments
	Clay	sediments
V V V V V V V V V V V V V V V V V V V	Volcanic ash	
2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Zeolites	
••••	Mn nodules	
	Pyrite	
R R R	Shell Hash	
	Clay	
SLT SLT SLT	Silt Sand	Terrigenous Sediments
	Granules, pebbles	
	Cross-bedding	
	Graded bedding	Special
	Mottling (burrowing)	Features
VOIO.	Sediment missing	
	Flow-in	

D. <u>Digitization of Geological Sample Data</u>

All logistical information about geological samples in the W.H.O.I. core collection is stored on computer disk and is accessible through computer program MUDDIE. In addition to this data, a summary of the descriptive information for each core has been put into digital form to allow rapid retrieval. Stored information about the samples may be retrieved according to combinations of any of the following parameters: ship, cruise, and leg number, latitude and longitude limits; Marsden Square number(s); water depth interval; core lengths; specific or general sampling device; physiographic province; and rock or sediment type. The program is on line on the Institution's VAX/VMS, and core lab PC's. Any investigator need only write, or call the Curator (508 457-2000, ext. 2466) for a current listing of cores in the collection that meet his specifications.

The following summary explains the coded terms used in the computer listings of samples in this report:

Ship Code

The three letter codes and ship names used in the data base are shown below.

ATL - Atlantis	AII - Atlantis II
AST - Asterias	ALB - Albatross
BSM - Bjarni Saemundsson	CHN - Chain
CIS - Columbus Iselin	END - Endeavor
GOS - Gosnold	KNR - Knorr
LLN - U.S. Long Lines	MWV - Moana Wave
OCE - Oceanus	SHK - Shackleton
ZZZ - Misc. (African Lakes)	

Sample Device

The sampling devices used to collect an individual sample are indicated by the following two-digit codes. In cases where various instruments have been added to the primary sampling device, an entry has been made in the VITA CODE column.

01 02	Campbell Grab Smith-McIntyre Grab
03	Van Veen Grab
03	Dietz-La Fond Snapper
05	Scoopfish
06	
	Underway Bottom Sampler
07	Pipe Dredge
08	Chain Bag Dredge
09	Anchor Dredge
10	Pipe Dredge, 3 inch
11	Pebble Dredge
12	Pierce Dredge
13	Gravity Core
14	Camera Core
15	Piston Core
16	Giant Piston Core
17	Giant Gravity Core
18	Free Fall Core (Benthos Type)

- 19 Box Core
- 20 Kasten Core
- 21 Hard rock Core Drill
- 22 Kennecott Grab
- 23 Alvin Sediment Core Drill
- 24 Alvin Manipulator
- 25 Williams Rock Drill
- 26 Pilot Core

Fix Type

Types of navigational equipment used to determine the sample location are as follows:

- 00 Unspecified (Comment in REMARKS or on COMMENT CARTD)
- 01 Dead Reckoning
- 02 Visual Bearing
- 03 Radar Fix
- 04 Celestial
- 05 Loran A
- 06 Loran C
- 07 VLF
- 08 Omega
- 09 Satellite/GPS
- 10 Radar Transponder Buoy
- 11 Bottom Transponder
- 12 Final Navigation File*

Physiographic Province

A general physiographic location has been assigned to each of the samples listed, and can be decoded as follows:

- 01 Insular Shelf
- O2 Continental Shelf (along continental margin)
- 03 Insular Slope
- 04 Continental Slope
- 05 Insular Rise
- 06 Continental Rise
- O7 Marginal Plateau or Borderland, deeper than 100 fms (e.g., Blake Plateau)
- 08 (Discontinued)
- 09 Archipelagic Apron
- 10 Abyssal Plain
- 11 Abyssal Hills
- 12 Seamount or Seamount Province
- 13 Aseismic Oceanic Rise or Ridge (e.g., Rio Grande Rise, Walvis Ridge)
- 14 Ridge Crest
- 15 Ridge Flank
- 16 Axial Valley
- 17 Trench Insular
- 18 Trench Continental Margin

^{*}Satellite fixes updated by continuous monitoring of ship's speed and heading via gravity acquisition system

Physiographic Province (cont'd)

- 19 Fracture Zone
- 20 Marginal Sea (e.g. Sea of Okhotsk, North Sea)
- 21 Small Ocean Basin (e.g., Red Sea, Caribbean Sea)
- 22 Inland Fresh Water Lake (e.g., African Lakes)
- 23 Harbor, Shallow Bay (e.g., Buzzards Bay)
- 24 Delta or Cone (e.g., Amazon Cone)
- 25 Submarine Canyon (e.g., Hudson Canyon)
- 26 Mid-Ocean Canyon or Channel (e.g., Maury Channel)
- 99 Unspecified: (Comment in REMARKS or on a COMMENT CARD)

Sediment Type

A four-digit code has been utilized to produce a rough description for each sediment sample listed. The first and second digits refer to the primary and secondary sediment types found with the sample. Both digits are from the following list.

- Unfossiliferous clay
- 2 Silty/sandy clay
- 3 Calcareous ooze
- 4 Calcareous clay
- Siliceous ooze
- 5 Siliceous clay
- 7 Foraminiferal sand, pteropod sand
- 8 Inorganic silt, sand
- 9 Volcanic glass
- Other

The third digit explains the relationship of the primary and secondary sediment types to one another.

- 1 Finely interbedded
- 2 Gradational contacts
- 3 Sharp contacts
- 4 Irregular or disturbed contacts
- 5 Entire core of uniform lithology
- 6 Contained in the same lithologic unit
- 7 Obscured
- 8 Visually indistinguishable
- Other

The fourth digit is used to indicate special features occurring within the sample.

- 1 Graded bedding or cross-bedding
- 2 Extensive mottling or burrowing
- Manganese or phosphate nodules 3
- 4 Granules or pebbles
- 5 Shells or shell fragments

- 6 Pyrite-rich sediment
- 7 Partially lithified sediment
- 8 More than one of the above
- 9 None
- 0 Other

Vita Code

The VITA Code is used to supplement the entry made in the DEVICE column and to provide a guide to additional types of data not covered in this listing.

- 40 with Camera
- 41 with Heat Flow outrigger probes
- 42 with Compass
- with Nephelometer
- 44 with Velocimeter
- 45 with Temperature Pinger
- 46 with Compass and Heat Flow
- 47 with Camera and Compass
- 48 with Camera and Nephelometer
- with Camera and Sound Velocimeter
- with Camera and Temperature Pinger
- 51 with Heat Flow and Sound Velocimeter
- 52 with Heat Flow and Nephelometer
- with Heat Flow and Temperature Pinger
- with Camera, Heat Flow, and Compass
- with Camera, Heat Flow, Compass, and Nephelometer
- with Camera, Heat Flow, Compass, Nephelometer, and Sound Velocimeter
- with Camera, Heat Flow, Compass, Nephelometer, Sound Velocimeter, and Temperature Pinger
- with Camera, Heat Flow, Compass, and Temperature Pinger

E. Procedures for Obtaining Sediment Samples and Additional Core Data

The WHOI Sea Floor Samples Laboratory is prepared to furnish sediment samples and data to interested scientists, researchers, and students inside or outside WHOI who express a legitimate interest and need. Sediment sampling is normally permitted in reasonable quantities, though sampling of recently acquired cores (taken during the preceding two years) is subject to the approval of the appropriate cruise chief scientist or collector of the samples.

The following procedures will serve as a guide to individuals requesting samples:

1. Procedures for requesting samples

- (1) Requests for samples may be sent directly to the staff scientist engaged in research on the samples, if this person is known. If not known, sample requests should be sent to the Curator's Office, McLean Laboratory, Woods Hole Oceanographic Institution, Woods Hole, Massachusetts 02543. (508 457-2000 ext. 2466) (Fax: 508 457-2183) EMAIL: MUD_JEB1@ RED.WHOI.EDU
- (2) A request for samples should include a brief summary of the type of research to be undertaken, the nature of the laboratory facilities available, and the source of financial support available for the work. The names of associated investigators should be given, and the nature of their research, facilities, and funding should be indicated if different from that of the applicant.
- (3) If the material requested is within the 2-year period of proprietary access, sample requests will be referred to the appropriate scientists for approval. Otherwise, sample requests will be reviewed by the curator's office.
- (4) The curator's office, in consultation with the appropriate WHOI staff scientist, will advise on the availability of material and on any other conditions that may be appropriate to ensure effective utilization of the material.

2. Responsibilities of persons receiving samples

- (1) The original alpha-numeric sample identifier should be used in published papers, or any departure from this scheme should be clearly equated with the original labeling system in published papers or data summaries. The W.H.O.I. labeling system will be explained in the information supplied with the samples.
- (2) Published papers should acknowledge the source of samples and the appropriate grant or funding agency which supported the cruise recovering the samples. This information will be supplied at the time the samples are sent. These papers should also acknowledge the financial support responsible for maintaining the Woods Hole geological samples (NSF Grant No. OCE 1901734).
- (3) Copies of all published papers, reports, or data summaries utilizing Woods Hole samples should be sent to the appropriate WHOI staff scientist and the WHOI curator.
- (4) The researcher should return all unused samples or portions of samples to the curator at the completion of his work.
- (5) Recipients of samples should not co-opt the services of other investigators or undertake research projects which differ substantially from work originally proposed, without obtaining the approval of the curator and the appropriate staff scientist.

ACKNOWLEDGMENTS

The Woods Hole Core Lab staff has received continuing support and encouragement from David A. Ross and G. Michael Purdy who have served as chairmen of the Geology and Geophysics Department. Financial support for the Woods Hole Core Lab operations has been provided by the National Science Foundation under Grant No. OCE 88-00693, and No OCE 1901734

We wish to thank Bill Dunkle and Marie Johnson for their assistance in locating original cruise records and station data and for cruise track maps.

The editors wish to thank Tom Davis and Bob Schneider for their valuable, individual contributions in the preparation of this volume.

Finally we wish to thank May Reed for her fine work in processing and proofing the core descriptions contained herein.

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COMPUTER LISTING OF WHOI SEDIMENT CORES (ARRANGED BY MARSDEN SQUARES)

Note: The following listing includes cores from all cruises described in Volumes 1 through 8. The listing may also include cores obtained during more recent cruises, even though the complete descriptions for these cores will appear in later volumes.

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MARSDEN SQUARE # 41

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MARSDEN SQUARE	FIX LONGITUDE TYPE	55.0 56.7 86.2 86.2 86.2 86.2 86.2	772 17.81W 9 74 26.41W 9 75 16.01W 9 75 21.51W 11 75 21.51W 11 75 25.51W 11 75 25.51W 11	25.3*W 1 25.3*W 1 22.0*W 0.2*W	000000	MARSDEN SQUARE 61 1.0'E 9 63 53.0'E 9 67 55.0'E 9 67 56.0'E 9 69 26.0'E 9	Marsden square	59 33.0'E 9 59 22.0'E 9 59 13.9'E 12 59 13.9'E 12 57 33.2'E 12
_	LATITUDE I	50.00 44.00 54.8 57.4	28 17.9'N 28 14.7'N 28 36.8'N 28 36.9'N 28 35.6'N 28 35.7'N 28 15.0'N	16.1'N 16.1'N 10.0'N 31.3'N	20 2.0'N 20 2.0'N 21 11.0'N 21 11.0'N 21 11.0'N 21 11.0'N 21 32.0'N	20 50.0'N 20 35.0'N 20 7.0'N 20 7.0'N 20 7.5'N 20 9.0'N	_	21 0.0'N 23 7.0'N 23 55.4'N 24 33.2'N 24 33.2'N
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#103
SQUARE
MARSDEN

ROCK OR SED. VITA TYPE CODE	336200 3227000 321200 351000 351000 351000 331000 331000 331000 331000 331000 331000 331000 331000 331000 331000 331000 331000 331000 331000 331000 331000 331000 331000	035200 531000 333000 354200	434541 342900 333900 335700 335900 332800 932700
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or 3 N DEPTH	2658 3341. 3341. 103. 103. 103. 72. 72. 72. 72. 72. 73. 74. 72. 73. 74. 74. 75. 76. 77. 77. 77. 77. 77. 77. 77. 77. 77	3802. 43. 30.	2302. 1748. 1331. 1827. 1827. 646. 2089.
CORE OR DREDGE	0061 0061 0063 0063 0065 0065 0065 0065 0065 0065	0044	156A 156B 0023 0023 0005 0017
#103 MARS- DEN SQUARE	103.47 103.47 103.49 103.49 103.54 103.54 103.54 103.54 103.54 103.62 103.62 103.64 103.64 103.66 103.64 103.66 103.66 103.66 103.66 103.66 103.66 103.70 103.70 103.70 103.70	104.53 104.89 104.99 104.99	105.08 105.08 105.08 105.08 105.09 105.17
MARSDEN SQUARE FIX LONGITUDE TYPE	57 59.1'E 12 59 53.1'E 9 59 53.1'E 9 53 8.8'E 12 54 11.5'E 12 55 43.3'E 12 57 0.7'E 12 57 0.7'E 12 52 42.9'E 12 50 56.4'E 12 50 28.1'E 12 50 28.1'E 12 50 28.1'E 12 50 28.1'E 12 50 28.1'E 12 50 28.1'E 12 50 36.6'E 12 50 36.6'E 12 50 36.6'E 12	43 21.5'E 9 49 35.7'E 12 49 45.3'E 12 49 45.3'E 12 MARSDEN SQUARE	38 15.0'E 1 38 19.0'E 1 38 20.5'E 1 38 9.1'E 1 39 13.9'E 9 37 59.7'E 1 38 2.0'E 9
N LATITUDE I	24 24 24 24 24 24 24 24 24 24 24 24 24 2	25 55.5'S 28 49.3'N 29 20.2'N 29 20.2'N	20 42.0'N 20 59.0'N 20 58.5'N 20 51.0'N 20 51.0'N 20 27.7'N 21 16.6'N 21 17.0'N
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CRUISE		15 93 93	61 61 61 100 100 100 15
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MARSDEN SQUARE #105

	ROCK OR SED. VITA TYPE CODE	000	324	343241	~	L.	002300	5	486941	407900	00100	445900	043900	001941	005941)	043200	002300	003941	ے ج	005941	005941	•	003941	7	006500	000000	00	445941	003941	003941	003941	005941	033941	033941	444741	135241	044700	001700	343941	496200	033700
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	OR E R DEPTH	2087.	1931	2028.	1748.	2056.	2084	2154.	2077	2167.	1984.	1944.	1967.	2167.	2167	1939.	1917.	2107.	2171.	1882	2048.	2167.	2153.	1889.	1966.	2017.	1959.	2028.	2057	2057.	2068.	2008.	2106.	2077.	2077.	2027.	1277	1972.	2007.	2209	1982.	1.485.
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	LATITUDE	21 23.5'N	17.8	14.7	22.8	22.5	22.5	21.3	10.9	17.0	18.8	18.8	18.8	21.0	21.0	18.8	23.3'	22.8	20.8	23.5	26.5	21.2	21.7'	22.4	21.6	21.6	14.4	22.6	23.21	23.2	21.9	21.9	22.4	25.4	25.4	25.3	28.0.8	25.7		17.8	18.2	18.2
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	STATION	0088	0000	0073	0078	8700	0078	0079	0080	0081	0082	0082	0082	0084	000	0085	6800	6800	0094	2600	9600	9010	0107	0108	0103	0111	0118	0120	0122	0124	0126	0126	0127	0128	0128	0129	0135	0139	0139	0143	0159	0159
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MARSDEN SQUARE #105

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SHIP		PEG	STATION	NUMBER	VI.	>	LATITUDE		LONGITUDE 1	TYPE	SQUARE		DEPTH	DEPTH		PROV.	. fet	CODE
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CHIN	001	٣	0020	0000	15		19	z	4.	-	œ	0016	1880.			16	342100	
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#114
SQUARE
MARSDEN

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R DEPTH	2525. 2525. 2533. 3063.	2452. 2538. 2568.	2595. 2538. 2538. 2378.	2434. 2434. 3397.	2593. 3403. 3108. 2535. 2535.	2575. 2598. 2595. 2151. 2151. 2958.	3315. 22730. 22730. 2630. 2630. 3020. 2103. 4161. 3226.	3427. 3427. 3132. 3132. 3209. 2925.
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CORE LENGTH OR END DEPTH	548. 495. 621. 473. 551. 716. 609. 818. 892.		586. 631.		32. 54.	45.	47.	69.	72.	72.	20. 16.	15.	18.	19.	35. 17.	20.	25. 18.	23.	13.	19.	39.	43.	31.	29. 63.
R DEPTH	3071. 2760. 3406. 3094. 4142. 3975. 4348. 4307.		4738 . 3508.		5022.	4869.	4533.	842	4654.	960	4814.	4827.	4824.	825	4817.	819	4823.	824	4824.	4820.	4622.	4616. 4819.	4539.	4776. 4821.
CORE OR DREDGE NUMBER	0025 0026 0023 0015 0016 0017 0019 0003		0022 0023		0021 0018	0019	0016	0017	0035 0036	0038	0001	0003	0004	0007	8000 8000	0010	0011	0014	0016	0022	0025	0027	0001	0013 0047
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LATITUDE	43 29.5'N 43 30.1'N 44 18.5'N 44 52.7'N 44 28.5'N 45 31.0'N 45 18.0'N 47 25.0'N	-	44 43.0'N 45 4.0'N	-	40 3.4'N 40 50.9'N	31.3	46.5	48.7	36.2	4.7	26.6	27.5	27.4	26.0	26.6	27.0	26.7	25.8	26.7	26.2	26.1	26.2	35.11	
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CORE LENGTH OR END DEPTH	4.	56. 56.	15.	51.	57.	49.	65. 1965.	₹.		468.	364.	375.	45.	20.	99.	127.	150.	140.	164.	170.	162.	145.	81.	23.	52.	99. 135.	135.	143.	172.	150.	. 02	59.
or S ≀ depth	4689.	4537. 4535.	4474.	4695.	636	4526.	1705. 80.	105.		117.	214.	225.	137.	128.	97.	58.	99	68.	71.	88.	97.	117.	117.	128.	113.	93.	. 69	75.	82.	82.	84.	88.
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MARS- DEN SQUARE	151.03 151.03	$\frac{51.0}{51.0}$	51.0	$\frac{51.0}{51.0}$	0.0	51.0	0.2	51.3	: #152	152.00	52.					52.	152.00	52.		52.	152.00	52.		52.	52.		52.0	0,0	0	0.0		
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#177 MARS- DEN SQUARE	1177.39 177.41 177.41 177.41 177.41 177.45 177.45 177.46 177.46	#178	178.18 178.19 178.19 178.19 178.28 178.39	\$179	179.01 179.01 179.02 179.02 179.02	#180	180.04 180.14 180.27 180.38	#181	181.96 181.98
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or S DEPTH	2665. 2665. 2505.	2505.	2535.	939	956	619	2619. 1290.		3375.	2876.	2831.	2831.	2737.	2823.	2823.	2848.	2863.	2892.	2892.	2691.	2732.	2721.	2819.	2819.	2770.	2746.	2804.	2804.	2708.	
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ROCK OR SED. VITA TYPE CODE	337000 337200 131000 317200 131000		225900 281400 284900 181900 223400	181400 181400 181400	181900 122900 224900 286400	281400		3266 3269 8369 8369 3269 8469 8859		3662 3939 3669 000000 161200 446900	396900 486900 496200
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CORE LENGTH OR END DEPTH	138. 1071. 125. 1110.		75. 341. 39. 139. 68.	282. 296.	393. 306. 124. 151.	182. 43.		39. 27. 31. 26. 37. 24.		22. 23. 36. 814. 148.	481. 52. 68.
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RO PHYSIO- OR GRAPHIC SEI PROV. TY	66 66 83 33 10 66 83 33 44 11 66 84 84 84 84 84 84 84 84 84 84 84 84 84				\$0,80.0 \$0,80.0
DREDGE OR SAMPLE WEIGHT	000000000000000000000000000000000000000				0000 0000 0000
CORE LENGTH OR END DEPTH	133. 840. 178. 811. 176. 996. 188. 157.		52. 322. 541. 5		1144. 124. 633. 1019.
or S Depth	3464 44444 448444 48332 44890 44425 2490		20. 100. 1100. 1100. 3300. 360. 4473. 4473. 4450. 4450. 1200. 2100. 2100. 2100.		3855. 3855. 1945. 2209.
CORE OR DREDGE NUMBER	0039 0040 0041 0041 0042 0043 0043		0001 0003 0003 00003 00003 00003 00003 00003 00003 00001 00001 00001 00003 00001		0031 0032 0033 0033
#331 MARS- DEN SQUARE	331.32 331.35 331.35 331.37 331.39 331.68 331.68	#333	333.09 333.09 333.09 333.19 333.19 333.19 333.19 333.19 333.28 333.28 333.28	#334	334.80 334.81 334.81 334.81
SQUARE FIX E TYPE		SQUARE	40800000000000000000000000000000000000	SQUARE	7'8 9 7'8 9 2'8 9 2'8 9
MARSDEN SQUARE FIX LONGITUDE TYPE	442 28.3 447 0.5 447 0.4 447 0.4 49 49.2 49 49.2 49 41.8 49 41.8 49 32.2	MARSDEN SQUARE	29 26.4 29 27.8 229 27.8 28 27.0 28 28.3 28 28.3 28 29 10.2 29 10.2 29 10.2 29 12.5 29 12.5 29 12.5 29 12.5 29 15.7 29 17.7 20	MARSDEN	10 26.7 10 26.7 11 49.5 11 49.2 11 49.2
M LATITUDE L	3 32.4 3 24.0 3 34.0 3 36.0 3 36.6 5 5 6 6 46.4 7 15.4 8 6 6 8	Σ	0 33.5 s 0 0 29.2 s 0 0 26.9 s 0 0 20.9 s 0 0 21.1 s 0 0 21.1 s 1 56.0 s 1 57.0 s 1	Σ	8 40.4'S 8 40.4'S 8 50.5'S 8 50.5'S
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DE- VICE	26 26 26 26 26 26 26 15		222222222222222222222222222222222222222		15 26 15 15 26
SAMPLE NUMBER	000000000000000000000000000000000000000				0000 0000 0000
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S LEG	888888887		101111111111111111111111111111111111111		m m m m m
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335	
SQUARE #	
MARSDEN	

VITA											
ROCK OR SED. TYPE	463954 502954 152254 563254 281154 612954 642954		3803 5300 5203 5303	5203 5803 5803 5803	5303 5803 5233	5203 5203 5230	5803 5203 5283 5200	5803 5203 5253 5803 5253		654300 664200	142200 115200
PHYSIO- GRAPHIC PROV.	110 110 110 110		0000	~~~	0000	7000	~~~	00000		11	10
DREDGE OR SAMPLE WEIGHT	000000000000000000000000000000000000000		0000	00000	0000	00000	00000	0000 0000 0000		0000	0000
CORE LENGTH OR END DEPTH	1104. 186. 1175. 188. 1111. 187. 1163.		24. 579. 66.	137. 58. 41.	47. 76.	568. 91.	578. 584. 24. 152.	282. 24. 14. 290.		702. 135.	739.
OR SE SR DEPTH	5658. 5658. 5371. 5371. 4938. 4515.		235. 244. 255. 252.	255. 135. 135. 250.	285. 110.	270. 270. 254.	250. 510. 1092. 850.	2400. 500. 535. 2700. 2650.		4289. 4289.	4314. 4314.
CORE OF DREDGE NUMBER	0027 0027 0028 0028 0029 0030		0001 0001 0002 0002	0002 0005 0005	0000	0003	00003 00004 00007	0000 0000 9000 0008		0001	0094 0094
#335 MARS- DEN SQUARE	335.82 335.84 335.84 335.84 335.86 335.86 335.88	#343	0		4447	່າຕໍາບໍາບໍາ	ທ່ານຕໍານໍ	343.55 343.55 343.55 343.55 343.55	34	344.06 344.06	#345 345.09 345.09
PIX TYPE	664444	SQUARE						00000	8		SQUARE
MAKSDEN SQUARE. FIX LONGITUDE TYPE	2 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	MARSDEN SQ	31.2 3.1 3.1 3.1	39.2	36.8	42.1.2	34.5 37.2 37.2	75 50.0'W 75 34.5'W 75 34.5'W 75 50.0'W 75 50.0'W	MARSDEN SQ	86 23.5'W 86 23.5'W	MARSDEN SQ 99 41.8'W 99 41.8'W
LATITUDE	8 38.0'S 8 38.0'S 8 37.1'S 8 37.1'S 8 42.7'S 8 42.7'S 8 41.0'S		0 22.8' 1 4.2' 1 4.2' 1 4.2'	1 4.2' 4 59.9' 59.9'	4 59.91 4 56.61	0 0 0 0	6.2 11.5 13.9 13.9	5 20.0's 5 11.5's 5 11.5's 5 20.0's 5 20.0's		0 17.2'S 0 17.2'S	10 5.0'S 10 5.0'S
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PHYSIO- GRAPHIC PROV.	110 110 110 115		2211222			21 21 21 21	ជជៈ	355	555	====	វេជជ	55:	17.	
GE FIE														
H DREDGE OR SAMPLE WEIGHT	00000		00000	00000		0000	0000	0000	0000	0000	0000	0000	0000	
CORE LENGTH OR END DEPTH	818. 148. 600. 70. 767. 133. 609.		558. 123. 360. 35. 536.	442. 145. 553. 126. 508.		550. 152. 487. 143. 298.	144. 855.	285. 520.	120. 1018. 133.	944. 150.	147.	137.	45. 862. 148.	
R DEPTH	4274. 4274. 4287. 4287. 4228. 4228. 3861.		3385. 3385. 3515. 3515. 3312.	3300. 3300. 3316. 3316. 3069.		2640. 2640. 3280. 3280. 1805.	3473.	851 811	2811. 3800. 3800.	3903. 3903.	670	3248.	4490. 4490. 4490.	
CORE OR DREDGE NUMBER	0093 0093 0092 0092 0091 0090 0090		00066 00067 00067 00070	0071 0071 0055 0055 0055		0063 0063 0065 0065	0064	0062	0061 0049 0049	0050 0050	6900 0068	0069	0058 0059 0059	
#346 MARS- DEN SQUARE	346.01 346.01 346.02 346.02 346.03 346.03	#354	354.30 354.30 354.40 354.40 354.51	. 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	1355	355.17 355.17 355.19 355.19	55.	55.	55.	55.	55.	55.	55. 55.	
-	664444	胚	000000		E)	00000								
MARSDEN SQUARE FIX LONGITUDE TYPE	2.2.W 338.0.W 448.2.W 30.0.W	en squar	35.4'E 44.7'E 22.5'E		EN SQUAR	34.7'E 34.7'E 34.1'E 34.1'E	4.6	2.0	3.7.6	0.00	1.1.	0.8	27.5	
IAR SI ONG	020000000000000000000000000000000000000	MARSDEN	07 170		MARSDEN	69 69 69 69	~ 80	96	- ო ო	440	. 6 6	000	66	
M NATITUDE I	22.1.°S 1.0°S 2.0°S 3.2°S 3.2°S 3.9°S 1.9°S	2	20.0'S 1 20.0'S 1 48.8'S 1 48.8'S 1 28.6'S 1	2 2 2 2 2	2.	32.5'S 1 32.5'S 1 57.1'S 1 57.1'S 1	4.7	2 8 -	5-1-	995	N 4	44	* ~ ~	
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SAMPLE NUMBER	00000		00000	00000		00000	0000	0000	0000	0000	0000	0000	0000	
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MARSDEN SQUARE #346

1352
SQUARE
IARSDEN

	TYPE CODE	093900 094900 096700 096400 162900 096900	312000 312000		314800		337200 331200	637200 660600	106100 00	137200 166200	006200 634000	000000	331000 00		356941 032941		004200 004200 346941	334000 332941	032941 045900 486900	
-01 -10		221 221 221 221 171			21					00		5 m (00		13			, o e	m 9 0	
DREDGE OR SAMPLE	WEIGHT		0000		0000		0000		0000				0000		0000		0000		0000	
CORE LENGTH OR END	DEPTH	173. 142. 1143. 125. 1074. 152.	541. 98.		597.		659. 88.	710.	312. 16.	580. 141.	896. 135.	. 622	160. 16.		107. 135.		1088. 77.	970. 127.	163. 80. 39.	; ;
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CORE OR DREDGE	NUMBER	0053 0053 0051 0051 0052 0052	0057 0057		0048					0031 0031					0013 0012				0016 0737 0733	
#355 MARS- Den	SOUARE	355.79 355.86 355.86 355.86 355.86 355.86	ທ່າ	#356	356.07	1360	360.12	360.14	360.32	360.37	360.37	360.43 360.64	360.67 360.67	1365	365.42 365.70	1366	366.14	366.53 366.78	366.88 366.90 366.90	,
WARE	ТҮРЕ			4RE	6	ARE		60		66	6 6	9		ARE		ARE	66.	- 6 -	-66	`
marsden square Fix	LONGITUDE T	15.8'E 15.8'E 4.8'E 4.8'E 41.7'E 41.7'E 15.9'E	11.4	marsden square	6.8'E	Marsden square	40.5	57.5	34.5	53.1	53.1	36.0°	57.0' 57.0'	Marsden squar	51.0'E 24.0'E	Marsden square	29.9	31.5	24.0	0.11
M AR	NO.	169 166 166 166 166 166	167 167	MAR	157	MAR	112	114	112	117	117	113	117	MAR	62	MAR	54	533	100 K	,
	LATITUDE	28 28 28 28 13 13 33	w.w.		0 13.5'S		52.5	19.2	4.0	3 22.4'S 3 22.4'S	22.4	37.0' 26.2'	37.0' 37.0'		4 15.0'S 7 22.0'S		1.2.2	27.0°	18 4.0'S 19 59.5'S	2.00
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1366
SOUARE
MARSDEN

								MARSDEN SQUARE	ARE #3	366			200				
SHIP	CRUISE IP	SEC.	STATION	SAMPLE NUMBER	DE-	DATE YRMODA	LATITUDE	LONGITUDE	M FIX DI TYPE SC	MARS- DEN SQUARE 1	CORE OR DREDGE NUMBER	ОЕРТН	CORE LENGTH OR END DEPTH	DREDGE OR SAMPLE WEIGHT	PHYSIO- GRAPHIC PROV.	ROCK OR SED. VITA TYPE CODE	
AII	[15	13	0732	0000	13	65 611	19 53.0'S	56 48.0'E	9 3	366.96	0732	4382.	118.	0000	10	036200	
								MARSDEN SQUARE	-	367							
AII		7	0673	0000		65 5 5	0 44.0'	40.54.0		9	~	1210.	10.	0000	-	000000	
CHN		ω	0063			7012 2	0 53.0'	47 37.7		7		4005.	858.	0000	9	383900	
CH		& (0063			7012 2	0 53.0'	47 37.7		7		4005.	47.	0000	9 9	335900	
		2 0 00	0700	0000		701213	30.8	41 50.1		- -		2151.	860.	0000	07 6	303900	
AI		۰ ح	0675			65 5 6	1 39.5	43 7.0				2379.	, 0	0000	9 9	000000	
CHN		60	5900			7012 5	2 59.1	41 36.7		7		3540.	896.	0000	20	372100	
CHN		80	900			7012 5	2 59.1	41 36.7		7		3540.	.69	0000	20	333900	
N TO		&	9900	0000		7012 6	3 11.3'	41 23.9		Ξ:		2350.	875.	0000	20	335900	
Z Z		ο α	9000			7012 9	3 11.3	41 23.9		<u> </u>		2350.	10g.		9 4	333900	
S S		6 0	0064			7012 3	3 18.2	46 58.5		9		3243.	107.	0000	• •	373100	
CHN			1900			7012 7	4 53.3	45 40.6		2		2941.	804.	0000	20	232900	
CE		∞ (2900			7012 7	4 53.3	45 40.6		2		2941.	67.	0000	20	342900	
CHO		\$ 0	6900			701211	5 25.6	41 33.6		둧:		2085.	161.	0000	20	782800	
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								MARSDEN SQUARE	-	370							
CHN		→ ·	0048	0000	15	61	1 5.0	10 44.0		10		3961.	1122.	0000	0	422954	
E S	66 6 7. 7	+ •	0048	0000	26 15	70 613	11 5.0'S	0 9		010		130	188.	0000	10	343954	
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MARSDEN SQUARE #375

ROCK OR SED. VITA TYPE CODE 123953 316653 316653 316653 19430 11339 1133	3322900 3323900 3335953 335953 335953 335953 335950 335900 335900 3373900 373900 373900 373900 373900
PHYSIO- GRAPHIC PROV. 10 6 6 6 6 10 10 10 10 10 10 10 10 10	
DREDGE OR SAMPLE WEIGHT 0000 0000 0000 0000 0000 0000 0000 0	
CORE LENGTH OR END DEPTH 117. 124. 110. 124. 1149. 1149. 1149. 1149. 108. 290. 108. 254. 755. 108. 254. 254. 254. 254. 254. 255.	223. 223. 223. 316. 193. 532. 105. 704. 736. 671. 682. 682. 682. 682. 682. 682. 682. 682
DEPTH 4757. DEPTH	22/2/3. 22/2/3. 22/2/3. 2192. 2192. 22/3/40. 22/3/40. 22/3/40. 22/3/3. 22/3/3. 22/3/4. 22/3/4. 22/3/4. 22/3/3. 22/3/3. 22/3/3. 22/3/3. 22/3/3. 22/3/3.
CORE OR DREDGE NUMBER 0053 0055 0055 0061 0061 0062 0063 0064 0064 0065 0065 0067 0065 0065 0065 0065 0065	
#375 BOUN SQUAN SQUAN 375. 375. 375. 375. 375. 375. 375. 375.	
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	VITA														
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	DREDGE OR SAMPLE WEIGHT	0000		0000		0000			0000 0000 0000			0000 0000		000000000000000000000000000000000000000	2000
SORE	LENGTH OR END DEPTH	105. 45. 753. 52.		120.		50.			22. 138. 72. 60. 78.			26. 83. 80.		620. 82. 53. 510. 76. 813. 77.	700
	r Depth	2595. 1922. 4188. 4188.		3661.		4936.			3269. 4039. 1307. 4243. 2943. 1286.			792. 1948. 1840. 3884.		1017. 2429. 2132. 2132. 2199. 2199. 4254.	4724
	CORE OR DREDGE NUMBER	0057 0058 0059 0059		0005		0735			0745 0744 0746 0751 0748			0758 0755 0756 0753		0012 0013 0013 0013 0015 0016 0016	1100
1376	MARS- Den SQUARE	376.30 376.41 376.90 376.90	#401	401.59	1102	402.02	#4 03)	403.47 403.48 403.57 403.61 403.64	#404		404.54 404.56 404.56 404.58	#406		406.50
ARE	FIX TYPE	6611		6		6	ARE	1	000000	ARE	í	0000	ARE	66466666	-
MARSDEN SQUARE	F LONGITUDE T	9.1'W 1.37.9'W 5.8'W 5.8'W	Marsden square	9 56.0'E	Marsden square	2 29.0'E	MARSDEN SOUARE		7 45.0'E 8 11.0'E 7 26.4'E 1 16.0'E 3 57.0'E 4 32.0'E	MAR CDEN SOLIARE	oğe vidden	34 45.0'E 36 42.0'E 36 9.0'E 38 53.0'E	MARSDEN SQUARE	<u> </u>	0 40.3'E
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	LATITUDE	5.8'S 16.8'S 20.8'S 20.8'S		34.5'S		2.0'S			59.0'S 54.0'S 3.1'S 7.0'S 1.0'S			56.0'8 56.5'8 54.0'8 55.0'8		16.00 S 30.00 S 31.40 S 4.20 S 4.20 S 4.20 S	
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	F.S													
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		933 133 133 133 133		8 8 8 8		ç	03				33	33	86.66	333
	PHYSIO- GRAPHIC PROV.	100000		10 10 10			15		115 110 110		13 13	13 13 13	133	26 26 26
	DREDGE OR SAMPLE WEIGHT	00000 00000 00000 00000		0000		9	0000		0000 0000 0000 0000		0000	00000	00000	00000
CORE	Length Or End Depth	1038. 177. 931. 184. 321. 107. 877.		491. 121. 485. 146.			502.		699. 117. 880. 99. 591. 152.		12. 0.	847. 523.	740. 36.	163. 10. 127.
	OR SE SR DEPTH	2640. 2640. 4331. 4331. 4738. 4792.		4018. 4018. 4080. 4080.		2200	3815.		4141. 4141. 4411. 4305.		1358. 1345. 1268.	735. 2100. 2343.	2090. 2090. 2795.	2661. 2857. 2874.
	CORE DREDO NUMBE	0036 0036 0038 0020 0020 0023		0039 0039 0040 0040			0042		0043 0044 0044 0044 0045				0086 0086 0107	
407	MARS- DEN SQUARE	407.09 407.09 407.18 407.57 407.57 407.59	#408	408.25 408.25 408.29 408.29	004	404	409.19	#410	410.10 410.10 410.12 410.12 410.14	#411	411.05 411.05 411.05	411.05 411.05 411.05	411.05 411.05 411.07	411.07 411.07 411.07
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-	LATITUDE 1	20 49.0'S 20 49.0'S 21 44.8'S 21 44.8'S 25 2.4'S 25 3.4'S 25 3.8'S	_	32 16.4'S 32 16.4'S 32 8.7'S 32 8.7'S	-	0	31 46.6'S	-	31 43.5'S 31 43.5'S 31 36.5'S 31 36.5'S 31 31.1'S	_	14.5' 21.9' 19.5'	58.0 0.0 1.0 1.0	30 0.1'S 30 0.1'S 30 52.7'S	48.6 49.4 48.9
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	1 60	07 07 07 44 44 47		7777		ŕ	7.2		44444		888	8777	74 74 80	8888
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MARSDEN SQUARE #407

MARSDEN SQUARE #411

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ROCK OR SED. TYPE	3337 3337 3337 3337 3337 3337 3337 333	
PHYSIO- GRAPHIC PROV.	\$\$\$313333333333 \$\$\$\$1133333333 \$\$\$\$\$\$\$\$\$	26 26 26 13
DREDGE Of SAMPLE WEIGHT		0000 0000 0000
CORE LENGTH OR END DEPTH	148 2226. 2226. 2226. 2227. 2223. 2233. 2233. 2233. 2233. 2233. 2233. 2233. 2233. 2233. 2233. 23	286. 288. 296. 547.
? D ертн	22840 22840 23920	4097. 4094. 4148. 4310.
CORE OR DREDGE NUMBER	00132 00130 001113 001113 00123 00123 00123 00123 00123 00123 00123 0003 000	0139 0140 0142 0060
MARS- Den SQUARE		1.09 1.09 1.09
FIX	o	6-6-
LONGITUDE		
LATITUDE 1	30 51.0 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	58.4 57.0 56.8 13.8
DATE YRMODA	880 713 880 713 880 7111 880 7111 880 7111 880 7111 880 7112 880 7112 880 7112 880 7112 880 7112 880 7114 880 7114 880 7114 880 7114 880 7114 880 7114 880 7114 880 7114 880 7117 880 7118 880 7114 880 7117 880 7118 880 7114 880 7117 880 7118 880 7118 880 7118	2223
DE~ VICE	7	17 17 17 15
SAMPLE NUMBER		0000
STATION	0200 0183 0188 0188 0188 0188 0198 0201 0201 0201 0222 0223 0223 0223 0223	0209 0210 0212 0104
LEG	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	0000
CRUISE SHIP		A11 107 A11 107 A11 107 CHN 115

MARSDEN SQUARE #411

VITA	88	<u> </u>																							•	- C	>								0	
ROCK OR SED. TYPE	14225	630	35	32	32	32	3.5	32	32	7	3359	1110													3739	33290	3359	3329	3329	3323	3429	4332	1159		3329 112900	
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R DEPTH	4310.	4181.	2484.	2341.	2228.	2047.	2007.	1887.	1781.	1566.	1556.	1385.	1344.	1288.	1273.	1016.	1238.	808	812.	964.	1039.	1176.	1300.	1360.	1430.	3122.	2716.	2587.	2268.	1562	3988.	4104.	4065.	4400.	2/95. 4463.	
CORE OR DREDGE NUMBER	0060	0061	0057	0029	0900	2900	0063 0070	0071	0072	0074	0075	0080	0082	0084	0035	0092	0093	0094	0095	0600	8600	0100	0101	0103	0104	013B	9900	1900	0068	0106	0144	0141	0158	0159	0065 0014	
#411 Mars- Den Square	411.09	11.0	٦.	11.1	11.1	11.1	411.15	11.1	⊶ -	11.1	11.1	411.15	11.1	11.1	٦.	11.1	11.1	11.1	Ξ-	411.15	11.1	Ξ.			Ξ.	411.10	11.1	11.1	11:1		11.1	Ξ.	11.1	7.7	411.26	
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MARSDEN SC LONGITUDE	39 14.6'1	9 5.8	5 41.6	5 43.4	5 44.2	5 46.0	59.9	5 56.2	5 54.2	5 52.5	5 52.1	5 52.1	5 53.2	5 53.0	5 53.5	5 57.7	5 58.6	5 29.7	5 30.4	5 41.11	5 41.8	5 47.0'	5 52.5	54.9	5 54.9	1.46 9	6 12.3	6 12.3	6 7.4	6 1.4	8 52.0	9 8.0	9 44.7	9 27.0'	36 11.3'V 39 20.6'V	
M LATITUDE I	13.8'5	15.5	51.1	48.6	45.7	41.9	36.2	30.9	2.5	. 0		0 0	. .		<u>ن</u> ر	٠.	4.2	15.7	14.6		6	7	15.0	15.			7	4.9	ا بنا	<u>, ,</u>	ے :	2, 6	7.6'5	6.5	2.1'S 34.2'S	
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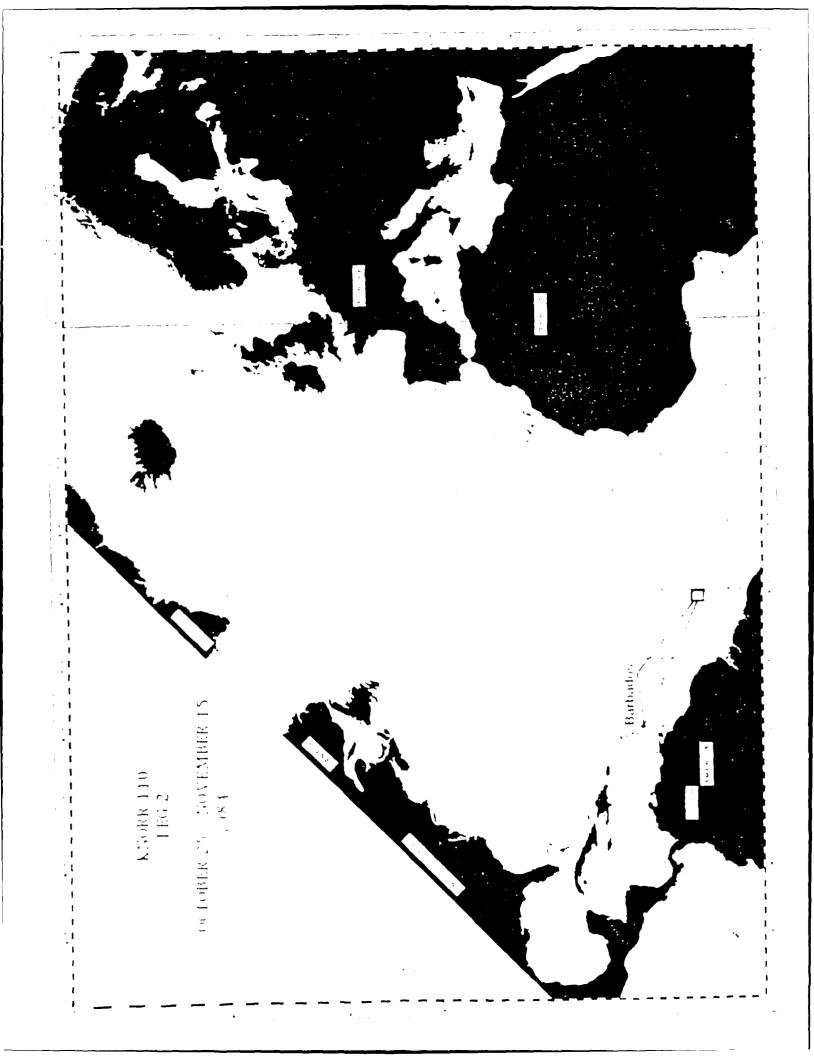
									MARSDEN SQUARE	1412			1			
SHIR	CRUISE	ပ မ မ	STATION	SAMPLE	DE-	DATE		LATITUDE	FIX LONGITUDE TYPE	MARS-DEN	CORE OR DREDGE NUMBER	DEPTH	CORE LENGTH OR END	DREDGE OR SAMPLE WEIGHT	PHYSIO- GRAPHIC PROV.	ROCK OR SED. VITA TYPE CODE
A111 A111 A111	1 107 1 107 1 60 1 60	0000		0000 0000 0000	17 15 15 15		m m m m	7.9'S 7.3'S 27.3'S 28.0'S	40 1.8'w 40 2.7'w 40 27.5'w 40 33.9'w		0155 0156 015A 015B	3660. 3635. 3190. 3207.	292. 1170. 561. 244.	0000	26 26 13 13	3322 3429 332900
A	1 15	15	0773	0000	13	65 711	1 32	1.5's	MARSDEN SQUARE 92 10.5'E 9	#434 434.22	0773	4450.	133.	0000	19	443300
AII	\$1 1	15	6920	0000	13	65 7 6	6 31	58.0'S	MARSDEN SQUARE 70 42.0'E 9	#436 436.30	6920	5141.	123.	0000	15	005300
A11	S1 I	15	0766	0000	13	65 7 3	3 32	0.0's	MARSDEN SQUARE 55 7.0'E 9	438.25	9920	4417.	32.	0000	14	435900
A11	1 15 1 15	15 15	0763 0765	0000	13	65 630 65 7 2	32 32 33	1.0'8	MARSDEN SQUARE 40 49.1'E 9 49 55.5'E 9	. #439 439.20 439.29	0763 0765	4549. 3698.	124. 117.	0000	19 14	443200 335900
A11	1 15	15	0761	0000	13	65 628	8 31	32.6'S	MARSDEN SQUARE 32 34.6'E 9	; #440 440.14	0761	2916.	55.	0000	Q	335900
CHN	N 115	S	0058 0058	0000	15	74 325 74 325	5 33	57.1'S 57.1'S	MARSDEN SQUARE 13 34.0'E 9 13 34.0'E 9	#442 442.33 442.33	0037 0037	4448. 4448.	594. 98.	0000	10	335053 335253
									SDEN SQUA	44						
CHN CHN	N 115 N 115	io io	0900	0000	15 26	74 327 74 327	7 34	4.7'S	6 55.0'E 9 6 55.0'E 9	443.46 443.46	0038 0038	5260. 5260.	878. 160.	0000	10 10	386353 186053
									MARSDEN SQUARE	#478						
CHN	N 115 N 115	44	0032 0032	0000	15 26	74 217	7 41	1.8'S 1.8'S	14 41.3'E 9 14 41.3'E 9	478.14	0024	4347.	1176. 146.	0000	10 10	356953 355953

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ROCK OR SED. VITA	TYPE CODE	033400 335500 335500 033400 033500 33400 351400 002400		086400 5552041 555241 555200 003400 653400		563400 555900 555800		552400 654400 663800		564400 563400 564400 555400 564400	652400 555700 562400 555700 552400	
PHYSIO- GRAPHIC	PROV.	112 122 123 123 123 123 123 123 123 123		4555555		15 15 15		15 15 15		20 20 20 20 20 20	20 20 20 20 20 20	
	WEIGHT	0000 0000 0000 0000 0000 0000 0000		0000 0000 0000 0000		0000		0000		0000 0000 0000	00000	
CORE LENGTH OR	DEPTH	154. 840. 60. 988. 133. 85. 170. 942.		22. 1135. 91. 58. 208. 244.		890. 83. 21.		71. 758. 130.		597. 132. 812. 83. 638.	538. 126. 742. 69. 130.	
æ	DEPTH	2517. 2270. 2270. 2167. 2167. 2195. 2473. 1885.		2012. 3140. 3140. 2921. 2768. 3255. 2189.		4119. 4119. 4121.		4119. 3926. 3926.		3251. 3251. 3174. 3174. 3150.	3116. 3116. 3223. 3223. 3223.	
CORE OR	NUMBER	0028 0027 0033 0033 0034 0025 0026		0023 0027 0027 0021 0022 0019 0031		0016 0016 0017		0015 0014 0014		0004 0005 0005 0006 0006		
#479 MARS~	SQUARE	479.67 479.68 479.68 479.68 479.68 479.77	#480	480.41 480.42 480.42 480.43 480.43 480.52	#481	481.47 481.47 481.47	#482	482.51 482.52 482.52	#483	483.62 483.62 483.62 483.62 483.62	mmmmm	
Z Z	TYPE		\RE	0000000	ARE	666	ARE	666	\RE	000000	000000	
MARSDEN SQUARE	LONGITUDE T	7 32.5'E 8 0.5'E 8 7.1'E 8 7.1'E 7 45.8'E 7 54.6'E 8 3.3'E	MARSDEN SQUAR	1 21.3 W 2 5.1 W 2 5.1 W 3 31.1 W 8 43.1 W 2 2.2 W	Marsden square	17 57.1'W 17 57.1'W 17 56.0'W	marsden square	21 58.5'W 22 10.9'W 22 10.9'W	MARSDEN SQUAR	32 21.1'W 32 21.1'W 32 44.8'W 32 44.8'W 32 45.2'W 32 45.2'W	2 45.11 2 38.91 2 38.91 2 38.91 2 29.91 2 41.31	
	LATITUDE	6 52.5'S 6 49.3'S 6 57.2'S 6 57.2'S 6 57.2'S 7 32.1'S 7 17.1'S		54 25.4 'S 54 42.1 'S 54 42.1 'S 54 45.2 'S 54 47.5 'S 54 54.5 'S		54 51.4'S 54 51.4'S 54 56.6'S		55 16.4'S 55 16.7'S 55 16.7'S		56 14.0'S 56 14.0'S 56 21.4'S 56 21.4'S 56 19.0'S 56 19.0'S	16.8 16.8 17.6 17.6 11.7	
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ا آ	VICE	117 226 226 117 117		13 26 26 17 17		15 26 17		17 15 26		26 26 15 26 26 26	22 28 28 28 28 28	
SAMP1.F	NUMBER	000000000000000000000000000000000000000		000000000000000000000000000000000000000		0000		0000		00000		
	STATION	0073 0072 0072 0078 0078 0070 0070		0042 0036 0037 0037 0024 0042		0020 0020 0021		0018 0017 0017		0006 0006 0007 0007 0008	0009 0009 0010 0011 0011	
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	E PHYSIO- E GRAPHIC T PROV.	20 20 20		15		15	14	19
	DREDGE OR SAMPLE WEIGHT	0000		0000	0000	0000	0000	0000
	Core Length Or End Depth	32. 622. 107.		141.	1059. 105.	1190.	143.	861.
	R DEPTH	3273. 3260. 3260.		3788.	3692.	2643.	1260.	5047.
	CORE OR DREDGE NUMBER I	0010 0011 0011		0025	0036 0036	9000	0032	0034
483	MARS- DEN SQUARE	483.62 483.62 483.62	#515	515.15	515.26	515.30	515.40	515.42
SQUARE	FIX TYPE	6 6 6 3 3 3	SQUARE	E 1	2 E	E 6	9 E	6 Э
MARSDEN SQUARE	LONGITUDI	32 41.3'W 32 38.4'W 32 38.4'W	MARSDEN	5 19.8	6 30.0	0 6.0'E	0 4	2 3.6
	LATITUDE LONGITUDE	56 17.4'S 56 16.9'S 56 16.9'S				53 36.0'S		
	DATE	80 313 80 313 80 313				74 223		7437
	DE-	26 15 26		15	26 26	15	13	15
	SAMPLE NUMBER	0000		0000	0000	0000	0000	0000
	LEG STATION	0012 0013 0013		0034	0051	0035	0043	0047
		999		4	• •	•	+ 4	*
	CRUISE	AII 107 AII 107 AII 107				CHN 115		



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SHIP	CRUISE	5 <u>3</u> 1	STATION	SAMPLE NUMBER	DE- VICE	DATE YRMODA	LATITUDE LONGITUDE	LONGIT	FIX JDE TYPE	MARS- Den E square	CORE OR DREDGE NUMBER	DEPTH I	CORE LENGTH OR END DEPTH	DREDGE OR SAMPLE WEIGHT	PHYSIO- GRAPHIC PROV.	DESC.	REMARKS
	110	~	0001	0000	11	841029		44 57	6 M.8		0001	3375.	300.	0000		1182	
	110	7	2000	0000	17	7	52.3	26		5.54		3502.	340.	0000		3332	
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	110	7	0004	0000	17	7	39.	46	-	•		3144.	282.	0000		1322	
	(10	~	0005	0000	17	7	41.6	4 3	.3 W			3296.	280.	0000		1102	
KKK	10	~	0005	0000	17	;	;					3547.	462.	0000		1302	
	10	~	9000	0000	17	;;	47.4		3			3674.	191.	0000		3302	
KKK S	011	% (0007	0000	17	841030	•	ر د بر	7	7.54	6000	3643.	280.	0000		3102	
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	110	~	0011	0000		841031	7	44 18	M. 0			4336.	439.	0000		1102	
	110	7	0012	0000		841031	13.	44 13	3 M			4468.	400.	0000		3138	
	110	7	0013	0000		8411 1	9.	44 4	3	•		4576.	356.	0000		1332	
	110	7	6613	0000		8411 1	17.	44	.5'W 8		0019	4576.	457.	0000		1308	
	110	~	0014	0000		8411 1	12.		_	•		4489.	335.	0000		3132	
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THERE WERE 113 ITEMS THAT MET YOUR REQUIREMENTS.

THANK YOU FOR USING PROGRAM MUDDIE.

Cruise IID

Ship Kantl_

Lot. 5-52. 14. Long. 17-524 W Depth 3372 m. Date Described 3/47 by Detti

Detailed Description

9-0

Physiographic location (Legal

Lithologic

Total Length 300 Core condition EAREMENT

VISUAL CORE DESCRIPTION

~ 5 Page 2

Core No Leg 2 Sto. 1 Cruise 110 Ship Knorr

Lithologic

Detailed Description

2.5Y 7/6 pale yellow faint mottling with 2.5Y 5/2 grayish brown material smooth lutite with forams increasing in abundance from scattered to common down core yellowish brown from 236-238 cm. 2.5Y 5/4 light olive brown faint mottling with 10YR 3/3 dark brown material 10YR 5/8 yellowish brown areas at 70, 138-140, 174-176, 209-213 cm. Other areas of 10YR 5/4 yellowish brown also present 2.5Y 4/4 olive brown mottling with 2.5Y 5/2 grayish brown material 10YR 5/3 brown mottling with 2.5Y 5/2 grayish brown material ranges from common to faint throughout smooth lutite with forams scattered to common smooth lutite with forems abundant smooth lutite with forans common HIGHLY CALC CLAY INTO CALC CLAY comon throughout HIGHLY CALC CLAY HICHTY CALC CLAY HIGHLY CALC CLAY S, horizontal G, horizontal G, horizontal END OF CORE. throughout 269-285 285-300 236-269 58-236

smooth lutite, forams common decreasing to scattered

G, horizontal

unit

faint mottling of overlying material near top of

IOYR 5/6 yellowish brown

HICHLY CALC CLAY

6-18

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4

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faint mottling throughout smooth lutite, forams abundant MICHLY CALC CLAY 107% 4/4 dark yellowish brown

7

十二十

S. horizontal

10YR 5/8 yellowish brown faint mottling of 10YR 5/6 yellowish brown and some

HIGHLY CALC CLAY

18-29

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10

8

of 10YR 3/4 dark yellowish brown smooth lutite with few forans thin (1 cm) lemination of 10YR 3/4 dark yellowish

brown material at top of unit

101

7 + + 8+

G, horizontal

red zones at 44 and 58 cm. Glacial to interglacial? 10YR 3/4 dark yellowish brown material. Similar, thicker, discontinuous laminations present from 35-41 cm. 2 semi-lithified 5YR 5/8 yellowish

S, incline, convex upward

accettered mottling of 10VR 3/4 dark yellowish brown material, mainly in upper 5 cm smeetial, forans decrease from scattered to

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101

and of care

10YR 5/8 yellowish brown

HIGHLY CALC CLAY

35-58

well laminated from 48-53 cm with thin (1/um),

few down-section

one thin (40.5cm) lamination at 31 cm of 10YR 3/6 dark yellowish brown with common forams G, horizontal

10YR 3/4 dark yellowish brown sottling common throughout (intercolation?)

HIGHLY CALC CLAY

29-35

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191

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1

smooth lutite with few forans

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDINENT CORES

Poge 1 of 1

	SHALMICACE VOLD	_	10 TR 5/3 brown grading to 10 Tr 5/4 yellowish brown Faint mottling of major colors throughout unit Silty luttee with abundant forans grading to Common below 25 cm. 5, mottled. 31-45 GALC GOZE	10 YR 4/4 dark yellowish brown Common mottling 10 YR 5/4 yellowish brown	Slightly eilty lutite with scattered forams I cm 10 YR 3/3 dark brown band at top of unit	S, mottled.	45-48 GALC 00ZE	10 YR 3/3 dark brown Few 10 YR 5/3 brown mottles	Sifty lutite with common torans S, 10*	85.58 95.58	CALC OOZE 10 TR 5/4 yellowish brown	No mottling Very silty butten grading to slightly silty with remeans for ann	Several bands of 7.5 JR 4/6 acrong brown scattered 10 JR 2/2 very dark brown anote: manageness micro	nodules?	\$4.102 \$4.103	O.12. CALC OOZE 10 YR 5/3 brown	Common 2.5 YR 4/2 dark graylah brown mottling	Slightly silty lutive with common forans	throughout Many large 2.5 Y 4/2 burrows throughout unit; few	2.5 Y 4/4 olive brown bands 98 cm., 105cm., 134 cm., 142 cm., 178 cm.	SHRINKAGE VOID (115-117 cm.) S.
Ship KMR Cruise III Total Length 370 cm. Core condition EKKELLENT Physiographic location NW Lithologic Log 0	 - -		1011	101	1	1		0 10		1 10	+ +	 o	+ +	6	Section 1		<u>.</u>		·11·		
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Ship:ExpediExpedi			LEVEL	3 6	12.5	26. CB	33 G	80 68	110 CB	190 CB	230 CB	255 CB	280 cm	295 CB							

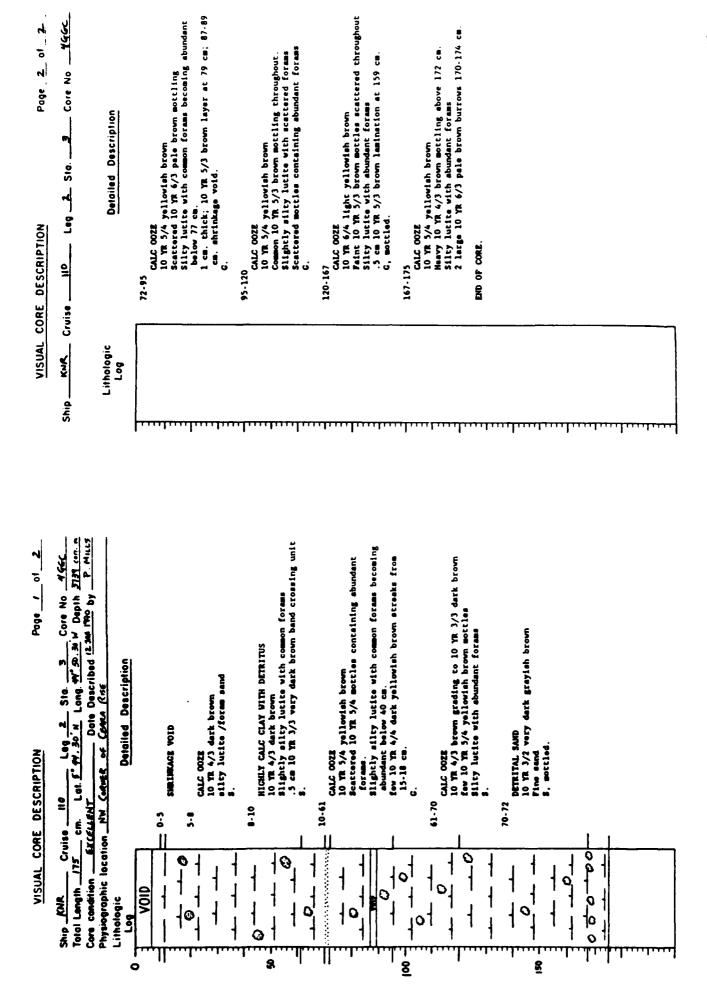
SEDIMENT 100 Station No. 2 Total Core Length
To Shards

SNEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Leg 2 Sig 2 Core No 2 66C

VISUAL CORE DESCRIPTION

Ship KNR Cruise 110



SHEAR SLIDE DESCRIPTIONS - M.H.O.I. SEDIMENT CORES

Page 1 01

Ship Khaft Cruise 110 Leg & Sia & Core No & GAC.	cellent Cour Rise. Date Described 3/9/2 by DAVIL	Detailed Description	•-0 	HIGHLY CALC CLAY 10YR 5/6 vellowish brown	Caint mottling of 10YR 5/4 yellowish brown and	smooth jutite with abundant forans upper 3 cm slightly darker than remainder G, horizontal	8-16 RIGHLY CALC CLAY 2.5Y 5/4 light olive brown smooth lutte with abundant forans	c, norizontal	MICHLY CALC CLAY 2 SY 4/4 14sh; olive brown to 10YR 5/8 vellowish	Drown	to scattered domicore	G, incline 15°	CALC GOZE TOWN A A dark wellowish brown	acettered mottling of dark yellowish brown material within the darker intercalated sediment	smooth lutite with few forens internal and bands of 10YR 4/4 dark vellowish brown	material found from 38-41 and 44-47 cm.		HIGHLY CALC CLAY	smooth lutite with few forms	intercassed dance of for 4/4 datk yellowing to the man and the man and the man are the man	58-282	HIGHLY CALC CLAY 2.5Y 4/4 olive brown	extensive mottling of 2.5% 5/4 light olive brown material throughout	emooth lutite with forame common throughout 10YR 3/6 dk, yellowish brown semi-lithified material	from 58-59 cm transition zone?, 2.5y 5/6 light olive brown i cm wide zones at: 82, 100, 122.	129, 272, 289, 333, 369 cm. END OF CORE.
Ship Khaft C	Core condition excellent	Lithologic	-0		70707	4年	1011	le 	1	60	† †	0 0		0	1	12 10	 	+ + + + + + + + + + + + + + + + + + +	1	me of come						
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	KMR	Expedition 110	Leg No.			SEDINENT		CALC GOZE 1	CL W/DETRITUS 15		SALC 002E	DETRITAL SAND	CALC GOZE	CALC 002E	CALC OOZE	CALC 00ZE										

CORES
SEDIMENT
W.H.O.1.
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DESCRIPTIONS
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1 1 2 7 7	HIGHLY CALC CLAY	2.37 4/4 olive brown into 2.37 6/6 olive yellow faint mottling of alightly darker material	amooch lutice with extensive forance basel lag of pteropod fragments in a 1 cm thick zone 5, horizontal 15-25 NIGHLY CALC CLAY 10YR 5/8 yellowish brown faint mottling smooth lutic with forans common	G, horizontal	25-40 Highly Calc Clay	10YR 5/6 yellowish brown amooth lutite with forams increasing from common to	abundant downcore lightens in color down core, sharp, inclined contact	S, incline 50°	40-56 HIGHLY CALC CLAY	10TR 5/6 yellowish brown scettered material scettered mottling of slightly darker material	smooth lutite with scattered forens G, horizontal	56-280 HIGHLY CALC CLAY	750	emooth lutite with foress common throughout	END OF CORE				
Ship Kindle Cruise Total Length LRD En Core condition EXCELES Physiographic location Lithologic Log		1 11 11 11 11 11 11 11 11 11 11 11 11 1		1 1	+ 0+	11	1.0.1.	1 1	0. 	789	31	1	11	4	ent of the	 ····	1111	 	ηr
Station No. 5 Total Core Length 282 cm cm	ESTIMATED ABUNDANCES (X)	Ingranic Material Biogenous Material Silt & Sand Calcareous Silt & Sand	Forens Remofossils Pteropods Discoasters States Pteropods	68 3 23 1 4	fr 60 4 30 Tr fr 6 Tr	IT 72 4 17 7 Tr	1 63 2 30 3	2 74 1 20 2	1 80 1 16 2	Tr 70 2 23 4	Tr 80 1 17 2								
Ship: Knorr Expedition 110		Inorgan	SE DIRECTOR OF SECURITY OF SEC	\vdash	13 " " Tr Tr	25 " " " Tr Tr	45 calc ooze 1 1	54 highly calc	120 " " Tr	:	1 . T								

SMEAR SLIDE DESCRIPTIONS - W.H.O. J. SEDIMENT CORES

Page / of &

VISUAL CORE DESCRIPTION

Core No. 6GGC	Station No. 5	Total Core Length 280 cm
Ship: Knorr	Expedition 110	Leg No2

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Expedition 110	Leg No.										!											

common mottling Lutite with common forams throughout Lutite vith common forams throughout Bight yellowish brown sand layer from 166-170 cm meems to fine upwards. 10YR 5/6 scattered yellowish brown layers including a 1 cm thick one at 139 10YR 5/4 yellowish brown common mottling decreasing to scattered below 282 cm lutite with common forams, becoming abundant after lutite with common forams throughout heavily intercalated throughout. 10YR 5/6 yellowish brown indurated layers at 43, and 54.5 cm. scattered sottling lutite with abundant forams, becoming extensive at 10 Leg & Sto 5 Core No 7JEC. - Date Described 444/87 by DAVIS smooth lutite with scattered forans 10YR 5/4 light yellowish brown scattered mottling 10YR 5/4 light yellowish brown 10YR 7/6 yellow common mottling throughout lutite with abundant forams G Detailed Description 10YR 6/6 brownish yellow scattered mottling врргом. 274 сш. HIGHLY CALC CLAY HIGHLY CALC CLAY HICHLY CALC CLAY HIGHLY CALC CLAY BICHLY CALC CLAY HIGHLY CALC CLAY 10YR 5/3 brown 5, horizontal S. irregular to 140 cm S, incline 352 CB Physiographic location Com Rise 341-356 333-341 233-333 57-233 Cruise 110 6-57 9-0 Total Length 462 cm. 1.09 -- 0.1 0-Ø Ship Khate 10 4 Lithologic Ø Q 1 0 4 4 1

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SPEAR SLIDE DESCRIPTIONS - N.H.O.I. SEDIPENT CORES

Core No 7 TGC Poge 2 of 2

- Leg & Sie 5

Ship Knorr Cruise 110

VISUAL CORE DESCRIPTION

Detailed Description

HICHLY CALC CLAY
10TR 5/6 yellowish brown into 10TR 6/4 light
yellowish brown
yellowish brown
common mottling
lutite with common to abundant forams
G

356-439

101

Lithologic Log

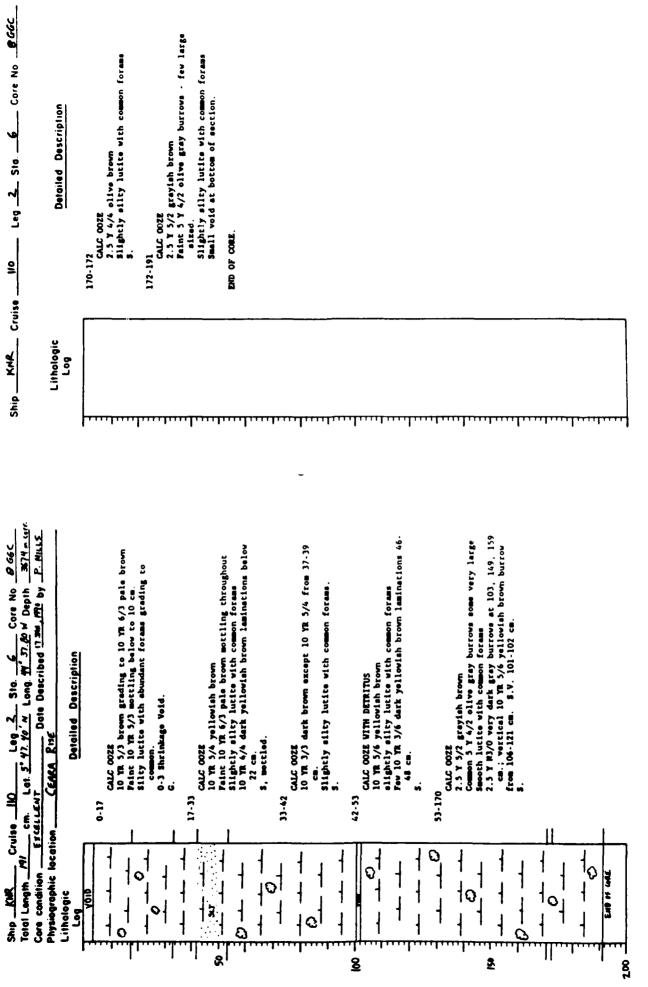
CALC 002E 10YR 7/6 yellow faint mottling if any lutite with abundant to extensive forams

439-462

end of cone

END OF CORE ...

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Poge 2 of 2 ..

VISUAL CORE DESCRIPTION

SHEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Cruise 110 Leg 2 Sta 7 Core No 9 GFG 2 Core No 9 C	Detailed Description	0-30	CALC OOZE 7.5YR 6/6 reddish yellow	scattered mottling lutte with abundant forams G	20-58 HICHLY CALC CLAY 10YR 5/6 yellowish brown common mottling smooth lutite with common forans	heavily intercalated throughout with darker colored layers. Also base of unit is a 0.5 on thick,	7.5YR 5/6 atrong brown indurated layer. S, horizontal	58-280	HIGHLY CALC CLAY IOYR 6/4 light yellowish brown	common mottling throughout smooth lutite with common forams	i cm thick ice rafted 10YR 5/8 yellowish brown layera found at 227, and 247 cm.	END OF CORE											
Ship Harre Cruise II Total Length ARC qm. Core condition Excelled Physiographic location	Lithologic Log	101	-	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1	 	1 + 10	1	TO 1	1		2007	-	1 4	 	1	my of core	>	. بار	.	7717		1
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SHEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIHENT CORES

Page 1 of 2

Cruise 110 Leg 2 Sto. 7 Core No 16 JEC 437 cm. Lat. 5' 50. 45' N Long 49' 55. 25 W Depth 3659 min.cr. Excellent Date Described (8 Jee, 1990 by P. Miller location Cent. Rue	Detailed Description	e.		10 IR 6/4 light yellowish brown. ### Silty lutite with abundant forams.	10-26 CALC GOZE 10 YR 4/4 dark yellowish brown Slightly silty lutite with common forams. Few 10 YR 3/3 dark brown laminations at 20, 22 and 26 cm.	26.36	CALC OOZE 10 YR 4/6 dark yellowish brown	Slightly allty lutite with scattered foress Many 10 YR 3/3 lessions throughout, 4 thin 10	YR 5/6 yellowish brown leminations, 2 at top of unit, 2 at unit base.	36.227	CALC OOZE 2.5 Y 5/2 graytah brown	common 2.5 YR 4/2 dark grayish brown mottles and some large burrows; extensive mottling below 190	cm. Slightly silty lutite with common foress	Pew 1.5 YR 5/6 laminations most notable at 129, 160, 176-178 cm.	G, mottled. Void 77-105 cm.	Section 4 missing.	227-242 CALC 002E	2.5 % 6/2 light brownish gray Faint 2.5 % 5/2 gravish brown more line	Slightly silty lutite with scattered forass. Large 2.5 N2/ black burrow, vertically oriented.	236-239 cm.			
Ship KNR Crular Total Length 437 Core condition Exce Physiographic location.	Lithologic Log			• 	1 0 1 1	4	200		10	+		+ 4	+ +	1	+	+++++++++++++++++++++++++++++++++++++++	1	0	6	+	4 +0	1	10
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	Station No.	1019; Core Length	ESTIMATED ABUNDANCES (%)	Sand	Volcanic Shards Clay	56 13	73 3	7 07	76 4	79 1													
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Ship: Koarr	Expedition 110				SEDIMENT TYPE	calc ooze	highly calc	:	:														
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SHEAR SLIDE
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Page 2 of 2 Core No 10 TGC

Ship KMR Cruise 110 Leg Z Sto. 7

VISUAL CORE DESCRIPTION

Expedition 110	Leg No. 2		Ingranic Material		LEVEL SEDIMENT S	TYPE (61)1 61P	3-20	CALC 002E TR 3	18 CALC 002E TR 7	30	120 CALC 00ZE 5 1	230 CALC 002E 3 2	290 CALC 002E 2 3	335 CALC 002E 4 2	350 CALC 002E 2 1	370 CALC 002E 2 5	410 CALC 00ZE 3 3	-								
		2.5 YR 6/4		orans excep	from 260-26			mottles and		emination a h brown wavy			treaks.	353 св.			oughout.	74ms. 361 cm;	nd 377			5/4 0114	Burrows	splays	full cons	
Detailed Description	242-324	CALC OOZE 2.5 Y 5/4 light olive brown grading to 2.5 YR 6/4	light yellowish brown. Faint 2.5 Y 4/4 mottling above 280 cm.	Slightly silty lutite with scattered forans except common from 300-315 cm.	Tew 10 TR 5/6 yellowish brown streaks from 260-265 cm.		324-343 — CALC 002E	2.5 Y 5/2 graylsh brown Scattered 2.5 Y 4/2 dark graylsh brown mottles and	burrows throughout. Smooth lutite with scattered forams	.5 cm 10 YR 4/6 dark yellowish brown lamination at 325 c.; .5 cm 2.5 YR 4/2 dark grayish brown wavy	lamination at base of unit.	343-357 CALC 002E	2.5 Y 6/2 light brownleh grey. Scattered 2.5 Y NS/ grey mottles and streaks.	Silty lutite with abundant forems. Thin 2.5 Y NS/ grey wavy lamination at 353 cm	Ġ	357-378 CALC 002E	10 YR 5/4 yellowish brown Faint 2.5 M5/gray mottles scattered throughout.	Slightly silty lutite with scattered forams. 1 cm. 10 YR 4/6 dark yellowish brown at 361 cm;	thin laminations of same color at 370 and 377 cm.	· vi	378-437 CALC 002E	2.5 Y 5/2 graytah brown grading to 2.5 Y 5/4 olive brown.	Few 2.5. 7 4/2 dark grayish brown mottles/burrows above 400 cm.	Thin 2.5 Y Wal lamination at 391 unit displays	way cross becaing at anjot colors below 40 cm. With few 2.3 % 5/6 light blive brown lasherions from 423-430: Shrinkage wold 322-355 cm convex	upward vold from 433-437.

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pteropods

Clay

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Biogenous Material
Calcareous Siliceous

ESTIMATED ABUNDANCES (%)

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437

Total Core Length __

Core No. 10JGC

Station No. 7

Ship: Knorr Expedition 110 Leg No. 2	SEDIMENT SEDIMENT SEDIMENT SEDIMENT STATES S	5 cm calc ooze Ir Ir	18	35 nighty ca	53 " " " Tr	160 17. 17.	225 calc clay	270				4				nthon
Total Length 195 cm. Lat. 5-53, 14 Long 14, 151 Depth 3382. Core condition excelled by 2405 Physiographic location Cena Rice. Lithologic Log O-10 CALC DOZE	2.57 5/6 light olive brown into loyn 5/3 brown sections of the section of the sec		HIGHLY CALC CLAY MAIGHLY CALC CLAY MAIGHLY CALC CLAY MAIGHLY CALC CLAY	brown areas brown	S. incline 7° S. incline 7°	48-57 HIGHLY CALC CLAY	10YR 3/4 derk yellowish brown zones with 2.5Y 5/6	semi-lithified areas with smooth lutite and few	glacial to interglacial transition zone?	\$1-274	H 7	brown mottles present; 10YR 3/4 dark yellowish brown zones (few) also found mottline common throughout	lutife with forage common throughout S, horizontal	224-295	CALC CLAY TO HIGHLY CALC CLAY 1 cm thick 100% 3/4 dark yellowin brown zone at 100, then 2 54 4/4 olding brown 2 60 5/2	grayish brown mottles mottles mottles scattered throughout unit smooth lutite with scattered forams becoming common

Sponge

Diatoms

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Biogenous Material
Calcareous Siliceous

ESTIMATED ABUNDANCES (X)

Total Core Length ___

Core No. 11GGC Station No. 8

SMEAR SLIDE DESCRIPTIONS - M.H.O.I. SEDIMENT CORES

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VISUAL CORE DESCRIPTION

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VISUAL CORE DESCRIPTION	186 cm Lat. 5.580/4 Long 49-1261 Optin 37612. 286 cm Lat. 5.580/4 Long 49-1261 Optin 37612. 2762/21	Detailed Description	0-23 HIGHLY CALC CLAY 10YR 6/6 brownish yellow common mottling near top, to scattered downcore lutite with abundant forans G	CALC GOZE 10YR 5/6 yellowish brown mottling common forams lutite with common forams heavily intercalated throughout interval, bottom 10 cm contain several 10YR 5/8 yellowish brown layers, including very distinct one at base 5, horizontal 57-286 HIGHLY CALC CLAY TO CALC GOZE 10YR 6/4 light yellowish brown mottling common lutite with common forams numerous 10YR 5/8 yellowish brown layers, including 77, 80, 120, 172, 213-214, 244, 253-256, 253. Zi4 cm. END OF CORE	
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Knorr	Expedition 110	0.				SEDIMENT		highly calc	calc ooze	highly calc	=	calc ooze													
Ship:	Exped	Leg No.				IEVEL		15 CB	4.5	110	190	260													

SHEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: Knorr Core N Expedition 110 Statio Leg No. 2 Total ESTIM ESTIMATE SAID Site & Sand	The properties of the properti	120 caic clay Tr 1 8 120 caic clay Tr 1 8 120 clay Tr 1 8 120 clay Tr 1 1 1 12 1 13 14 15 14 15 15 15 15 15		
The Cruise IID Lead 2 Sto. 9 Core No 1376cc ion external from Lot 5 56.76.4 Long 110.22 8 Depth ion external Lot 5 56.76.4 Long 110.22 8 Depth ion external Lot Kine Date Description Detailed Description O-12 HIGHLY CALC CLAY IOYR 6/3 pale brown common wortling intite with abundant forms O - C C	HICHLY CALC CLAY 10YR 5/6 yellowish brown common to acattered mottling Lutite with common forans Intite with common forans Interval is heavily intercalated throughout, and botton-most 2 cms sent indurated LONG 4/6 dark yellowish brown material S, incline 10° HICHLY CALC CLAY	2.5Y 6/4 light yellowish brown to 10YR 5/3 brown common mottling lutter with common forame except abundant forams from 41547 cm numerous 10YR 4/6 dark yellowish brown layers, including 298-299,363-366,428-440 cm	o 1 1 1 1	6 4 4 1 4
Ship Kherre Total Length Core condition Physiographic Lithologic Log	149141	1 + + + +	1 6	1 10 1
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Pteropods

Biogenous Material
Calcareous Siliceous

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Total Core Length

Station No.

13JGC

Core No.

SHEAR SLIDE DESCRIPTIONS - N.H.O.I. SEDIMENT CORES

VISUAL CORE DESCRIPTION

ESTIMATED ABUNDANCES (%)

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Biogenous Material
Calcareous Siliceous

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Ship: Knorr Expedition	SEDIMEN TYPE		200 Clay w/de		
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Ship KNOTC Cruise 110 Total Length 370 cm. La Core condition EXCELLES Physiographic location Chara Lihologic Log		1 1 1 1	94 48 4 1 4 4 4 1 4 4 4 1 4 4 4		9 3
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VISUAL CORE DESCRIPTION

Core No. 15GGC Station No. 11

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Leg No.				ונאנו		10 cm	27	90	170	260	340											

Core No A	Total Langih 439 cm., Lat. 6 22 45 M Lang 12/21/V Depth 4	Date Described 443/82 by D	Lite	
Ship Knorf Cruise	Total Length 439 cm.	Core condition - Prefler	Physiographic location Casa Kise	Lithologic

Detailed Description 0

lutite with abundant forans 10YR 5/4 yellowish brown scattered mottling HIGHLY CALC CLAY 0-12

ecattered to common mottling
lutite with few to acattered forame
middle region heavily intercalated with very dark
brown material. Bottom 8 cm intercalated very
dark brown with dark yellow brown 10TR 4/4 dark yellowish brown with 10YR 2/2 very dark brown from 19-21 cm. From 21-29 cm the above two colors are intercalated S, convoluted (irregular) SLIGHTLY CALC CLAY 12-29

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174-177, 336-337 cm., fining upwards evident. Other thin (2 .25 cm.) sand layers present. Numerous 107R 4/6 dark yellowish brown "stained" SLIGHTLY TO CALC CLAY BOUNDED BY HIGHLY CALC CLAY 2.3% 5/2 greyigh brown common mottling Lutite with common forams 10VR 3/3 dark brown fine sand layers at 159-161, areas down to about 280 cm. 29-358

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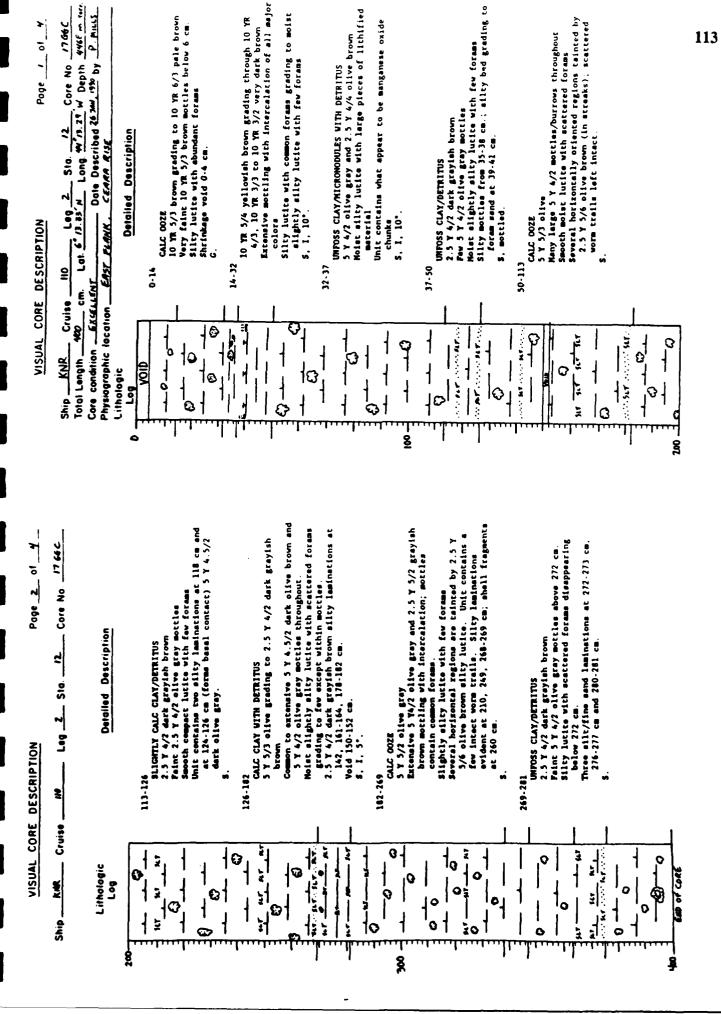
2.5T 5/4 light olive brown except from 381-392 and from 429 to end of core which is 2.5Y 5/2 grayish common mottling throughout except from 369-380 and from 408-426 where the mottling is faint to lutite with scattered to common forms
10TR 4/6 dark yellowish brown semi-indurated,
debris layers at 381 and 389 cm. Each
41 cm thick . Intercalated from 382 to 389 cm. scattered CALC CLAY FLOS 358-439

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END OF CORE...

Core No. 16JGC	Station No.	Total Core Length 439 cm
Ship: Knorr	Expedition 110	Leg No. 2

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Core No 1766C

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Ship KME Cruise 116 Leg 2 SIG 12 Core NO 1766C	Lithologic Detailed Description	213-400 CALC CLAY DETRITUS 5 1 4/2 olive gray Fight 2.5 9 4/2 dark graylah brown mottles scattered throughout and at betton of core. Large 10 Th 3/4 yellowith brown and 10 Th 3/2 very dark graylah brown burrow at 393-398 cm. END OF COME
Ship NML Cruise 110 Leg 2 Sta. 12 Core No 17 GGC	Lithologic Deloited Description	281-338 3 7 2/2 alive gray and 3 7 4/1 dark gray Extensive 3 4 7/2 alive gray and 3 7 4/1 dark gray Extensive 5 4 7/2 alive gray and 3 7 4/1 dark gray Extensive 5 1 2/2 alive detector of command and and and and alive from and 12/2 and 3 00-13 for and 3 24/2 cc.; seatcared 2.5 3/6 alive tainted regions most. 3 8 - 0.

SMEAR SLIDE DESCRIPTIONS - W.M.O.I. SEDIMENT CORES

Sta 18 Core No 1865 E. State 1965 E. State 1965 E. State 1965 E. State 1965 E. Detailed Description	0-16 CALC GOZE	107R 5/8 yellowish brown	teint mottling with 2.37 3/4 light plive blown material to 5 cm depth	lutite with scattered forans S, horizontal 18-25 SLIGHTLY CALC CLAY 10TR 2/2 very dark brown	common mottling from 18-21 cm of yellowish brown sediment with very dark brown sediment smooth lutite	S, incline 30°	25-28 CALC CLAY	10YR 4/6 dark yellowish brown semi-lithified at top, to smooth lutite	S, incline 30°	28-349 HIGHLY CALC CLAY GRADES TO CALC	2.5% 4/4 olive brown with interbedded 10VR 4/6 dark	yellowish brown sones and 2.5% 4/2 dark graylsh brown silty areas	Ħ	smooth lutite with zones of silty lutite. Few to scattered forams throughout	thin (0.5 cm) 10YR 4/6 dark yellowish brown areas at 56,80,87,109,120,162,208,239, 318 cms. Silty	areas at 32.5, 113,125,154,167, 187, 278,282,286 cms.	356-356		wery silty with a silty lutite from 350-351.5 cm with no gradation between	S, horizontal	354-356 MICHIA CALC CLAY	ST 4/4 Olive smooth lutie, few forms	S, horizontal	· END OF CORE
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7 7	5	ESTIMATED ABUNDANCES (%)	73	stizzo	ounsk	35	45	¥		F	ಜ	_	^	ž	F	2	_						_}	
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rtion 110				SEDINENT TYPE		CALC 002E	CALC 002E	UNFOSS CLAY HICROMODULES	WITH DETRITUS	UNIFOSS CLAY/ DETRITUS	CALC 002E	SLIGHTLY CALC	CALC CLAY W/	CALC 002E	UNFOSS CLAY/	CL/DETRITUS	SLIGHTLY CALC	SLIGHTLY CALC	CALC CLAY / DETRITUS	CALC CLAY/				
Ship: Expedition	Leg No.			ונאנו		8	22	×		4.5	85	120	155	225	275	310	346	360	372	390				

SPEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

LOS 1 109 1 SIG. 18 COTO NO 1976L

VISUAL CORE DESCRIPTION

Cruise 110

Ship Kharr

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Knorr			lo				SEDIMENT TYPE	celc ooze	:	slightly calc	calc clay	unfossiliferou clay v/detritu	highly calc	:	calc clay		calc clay w/	elightly celd cley /detritu	celc clay/	highly calc						
Shto:	Exped	,	Leg No.				ונאנו	3 0	13	20	26	33	4.7	8	041	190	254	305	349	355						

CALC GOZE 107R 6/4 11ght yellowish brown darkening to 107R 5/6 in a lenticular fashion invard a maximum of 1.5 cm. common throughout
this interval is similar to the above, except
with the addition of distinct silt layers throughout the interval at: 296, 317-318, 336-339,
341-344,355,376,401,409,414cm. in burrows.
7.5% 5/8 strong brown thin, mostly < 1.0 cm. layers at 68.76.82.84.104.114.128.133.159-16C.199.
206.208.213.232-233.237.245-246, and 247 cm. One similar layer at approx 52 cm, originally horiunit consists of repeating layers of 10YR 5/3 brown lutite, 10YR 5/4 yellowish brown lutite, gradations between these 2 colors, and many strong Zones of abundant Mn micronodules also present. Each individual layer is a maximum of approx 7 cm smooth lutite with common forage, 27-30 cm has few forans, except 10YR 5/3 brown area... which lacks REPETITIOUS LAYERS OF CALC CLAY, HIGHLY CALC CLAY mottling of 10YR 5/3 brown material scattered to In general, a smooth lutite with scattered to no forans. From 40-85 cm forans are concentrated zontal, was disturbed during coring and is now located along one wall of the liner, extending As above, except with the addition of 10YR 4/3 brown, and 10YR 3/3 dark brown silt layers. mottling of 10YR 5/3 brown material scattered to (WITH MN MICRONODULES IN SOME PLACES), AND CALC CLAY WITH DETRITUS AT THE BASE OF THE UNIT scattered mottling in uppermost 7 cm., faintly 24-30 cm fairly heavily intercalated 7.5YR 5/8 brown units also Detailed Description mottled from 7-24 cm CALC CLAY WITH DETRITUS comon throughout vellowish brown S. horizontal S, incline 20° sysiographic location Com Kirk 296-415 30-296 8-0 5 + 1 4 4 1 10 101 1 1 21 ------1 - M - M 1-12-1-6 Z 12 1 20 1 3 1 1001 1 4 1 1 3 1 1 31 thologic 121 4

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VISUAL CORE DESCRIPTIO	110
CORE	Cruise
VISUAL	Knorr
	Ship

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SHEAR SLIDE DESCRIPTIONS - N.H.O.I. SEDIMENT CORES

19JGC

Lithologic Log

Detailed Description

BIGHLY CALC CLAY

OUR \$/3 brown with some slight variations

mottling common throughout interval

some tomeoner the forems common down to 425 cm, then

some concentrated in burrows. Few forems in remainder of core.

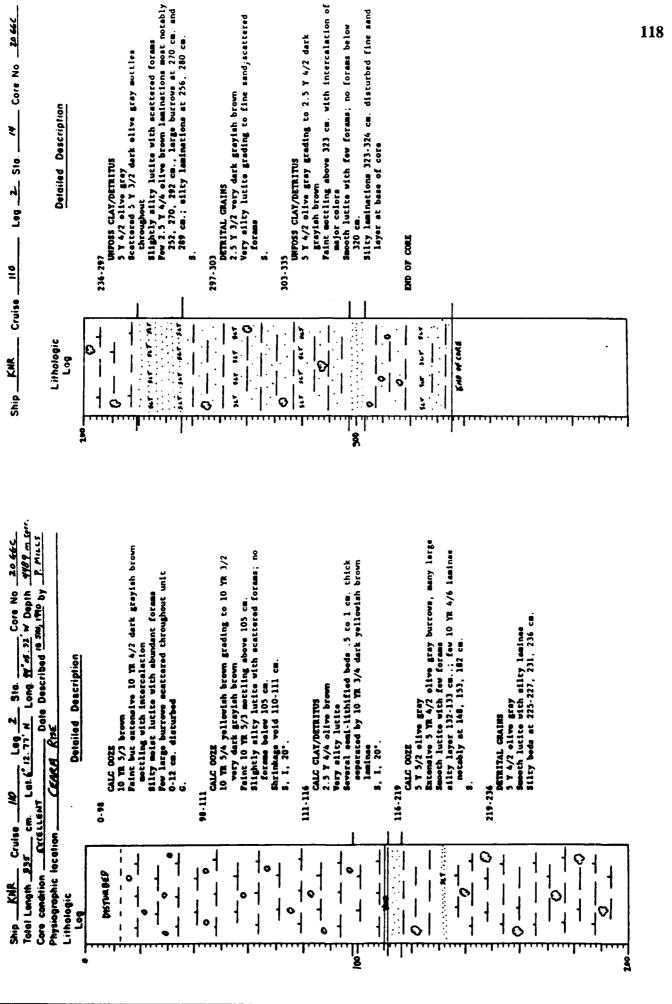
sainlar to above, but without slit layers. 7.5YR 5/8

strong brown layers at 437,454 cm. Mn sicromodule rich layer at 415-430 cm. Slightly silty

from 455-457 cm. 415-457

END OF CORE...

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					Siliceous	SinsforbsA												Ĺ
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,	1	457	(%)	Blogenous Material	Š	Discoasters						Ļ						
			ES (oger	Calcareous	Pteropods												Ī
19JCC	=	ngth .	ESTIMATED ABUNDANCES (X)	8	3	21122010nnsM	16	Tr	11	01	23	19	80	13	23			
l	ا نو	5	84 03			276.101	5		Tr	Tr	-	-		7	2			
Sore No.	Station No.	Total Core Length	I MA			CJ4y	67	89	87	83	5.4	76	7.5	99	11			
3	Sta	Tot	ES	Inorganic Material	P	Volcanic shards							Ţŗ.					
				c Mat	Pues 9	Seattoes												
				rgant	3115	es fubonoro IM	Ţŗ	9	Tr	Tr	20	11	11	-	2			
	ı			Ino		festrated enterg	1r	3	1	7	by Tr	1	15	20	Tr			
Knorr	Expedition 110	0.				SEDIMENT TYPE	calc ooze	slightly calc clay	calc clay	,, ,,	highly calc cl with Mn nodule	highly calc	calc clay w/	:	highly calc			
Shtp:	Exped	Leg No.				IEVEL	15 cm	53	80	150	225	243	294	336	420			
								_										



Poge 2 of 2

VISUAL CORE DESCRIPTION

Page 1 of 2

VISUAL CORE DESCRIPTION

Ship KMR

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_ Core No _20 66C

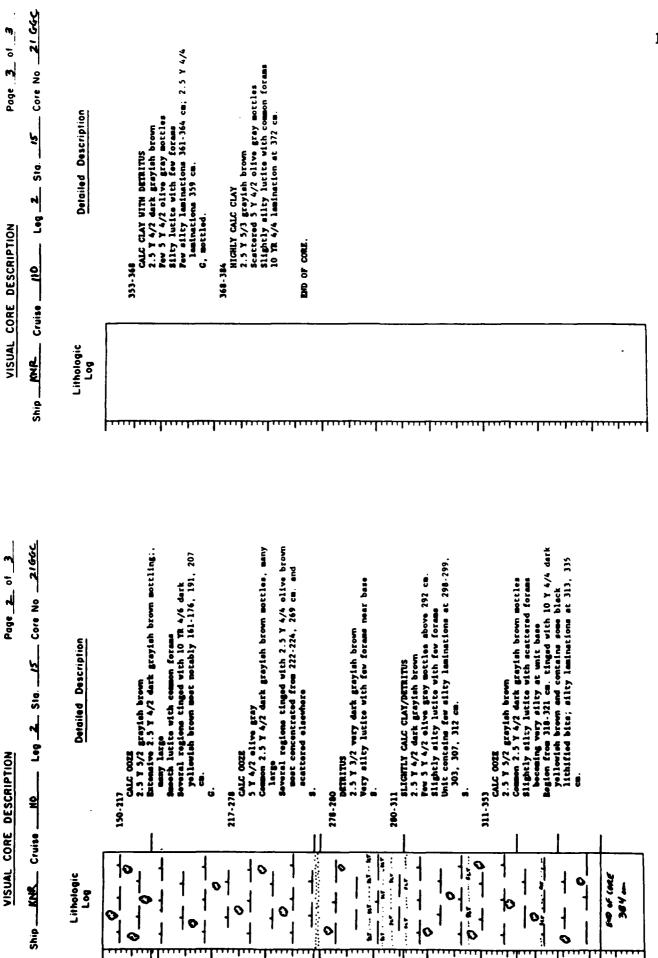
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SHEAR SLIDE DESCRIPTIONS - W.H.O.1. SEDIMENT CORES'

Poge 1 of 3

VISUAL CORE DESCRIPTION

55 S	CALC DOZE 10 TR 5/2 grayish brown grading to 10 YR 6/3 pale brown grading to 10 YR 5/4 yellouish brown	Someon mottling with intercalation Slightly ality lutite with abundant forams grading to common	0.3 cm. wold G. G. 26.31 UNFOSS CLAY/MICROMODULES WITH DETRITUS 10 YR 2/2 vary dark brown with 10 YR 4/4 dark yellowish brown	Few 10 YR 4/4 mottles Slightly silty lutite with few forams	·	SLICHTLY CALC CLAY/DETRITUS WITH MICRONODULES	10 TM 2/1 black Lithifled and semi-lithifled chunks	Unit is disturbed and has a rubble-like appearance \$.	33.95	2.5 Y 6/3 light yellowish gray brown	many are large			TO YR 4/6		SLIGHTLY CALC CLAY/DETRITUS	2.5 T 4.5 /2 graylah brown Scattered 2.5 T 4/2 dark graylah brown mottles	Smooth lutite with Rew forams Unit is silty from 98-99 cm. and from 145-150 cm;	10 YR 4/6 dark yellowish brown laminations at 100, 107, 119, 138 cm.	พ่		
Ship KNR Cruise Total Length 384 cm. Core condition Good Physiographic focation Lithologic	101			1	1	 	- - - - - - - -	0		8	1	1		1	 	\$4. StT . StT			0 -	S	0	84
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20GCC 14 mgth 335	(x)		Mannofossils Pteropods Piscoasters Eriens	39	42 TR 3	35 TR 1	1	50 3	1	-	TR 2		2		pa							
Core No. 2000 Station No. 1 Total Core Length	ESTIMATED ABUNDANCES		Shards VafO	40 15	42 10	50	5 15*	36 2	6 1	30	1 1 1	7.3	9,		* Altered							
		S11 & Sand	Yelcronodules Yelcronodules	2	2	9	7	2	2	4		2	3			_					-	
			fastraso entarp	7	-	\$	78	7	- 06 - 10 - 10 - 10 - 10 - 10 - 10 - 10 - 10	59	96	25	6.1									
Edit 110			SEDINENT TYPE	CALC DOZE	CALC 00ZE	CALC 002E	CALC CLAY/	CALC GOZE	DETRITUS	UNFOSS CLAY/ DETRITUS	DETRITUS	UNFOSS CLAY/ DETRITUS	UNFOSS CLAY/									
Ship: Expedition Leg No			IEWEL	7	93	105	115	8	230	213	302	320	334									



SPEAR SLIDE DESCRIPTIONS - N.H.O.I. SEDIMENT CORES

110 Lgg & Sie 13 Core No	Fiddled Coding. Dote Described 19/4/11 by Edit.		01-0	CALC COZE 10YR 6/6 light yellowish brown	faint mottling lutte with abundant forame	10-46 CALC CLAY INTERCALATED WITH HIGHLY CALC CLAY 7.37R 5/4 brown and 7.57R 3/2 dark brown from 32-37 cm. faint mottling at top of section becoming common at about 20 cm.	Lutite with common forems extensively intercaled with 7.5YR 3/2 dark brown account from 12.13 cm common intercaleino	from 38-39 cm, 41-43 cm, 7-58 cm, 61-62 cm, 61-63 cm, 61-63 cm, 61-63 cm, 7-88 cm, 61-63 cm, 7-88 cm, 61-63 cm, 61-6	S, incline 20°	AF IJ JEJ AINJE CH AF IJ JEG 197-99	1078 5/2 grayish brown to 1078 5/3 brown. Varies executions and fine	mottling of 107R 5/3 brown material common throughout action	smooth lutite with forems ranging from common to	also found.	105-106, 117-118, 143-145,170-171, 199-201, 211-272, 270-21, and last 0.5 cm of this unit.	Area of concentrated micronodules also found.		HIGHLY CALC CLAY HIGHLY CALC CLAY ALAber of INVB (/) provide brown to 10XB 5/3 brown	throughout	moftling of loim 3/3 brown material common throughout manager to a section	retions are also found in burrow infillings that and in a stallar to the one above it, but in-		245, 272-273, 374-375, 378-379, 386-387, 404-406,	407-408 cm. G	
	Core condition KICULA	Lithologic	100 - 100	1 - 10	11111		4	1 1 2	10-1	1 6	1 1	1	_ 	1	10	+0+	-		2 %	1	1 0	 	1 1	3	1 0
			€ 3		Siliceous	Sponges Sponges		T.								-									N.
	g		364	CES (8)	Biogenous Material S	Steropods Steropods	141	TR 2 T	17				TR			TR			TR		TR TR 2				
	Core No. 21 GCC	Station No. 15	Total Core Length	ESTIMATED ABUNDANCES		Shards Clay Forest strateging	30 20 40	32 15 40	04		39		50 1 42	56	20 35	55 3 33	3 TR TR	55 70 2	50 1	64 TR 10	65 1 26				
]	•			Inorganic Naterial Silt & Sand	festrase Alexandes Micronodules Seolites	,	01 1	3 35		3 25	Н	1	0 2		5 4	,	1 1	2	1 1	2 ,				
	KW	to 110	7			SEDIMENT	CALC OOZE TR	CALC OOZE	UNFOSS CLAY MICROMODULES 25	V/DETRITUS	SLIGHTLY CALC		CALC 002E	SLICHTLY CALC		CALC 002E	DETRITUS 97	SLIGHTLY CALG		u/	2				
	Ship:	Expedition	Leg No.		-	ונענו	4	20 C	29 K	•	22 24	- 2	20 02	22 821		250	279 D	295	329	Н	, y				

SHEAR SLIDE DESCRIPTIONS - M.H.O.I. SEDIMENT CORES

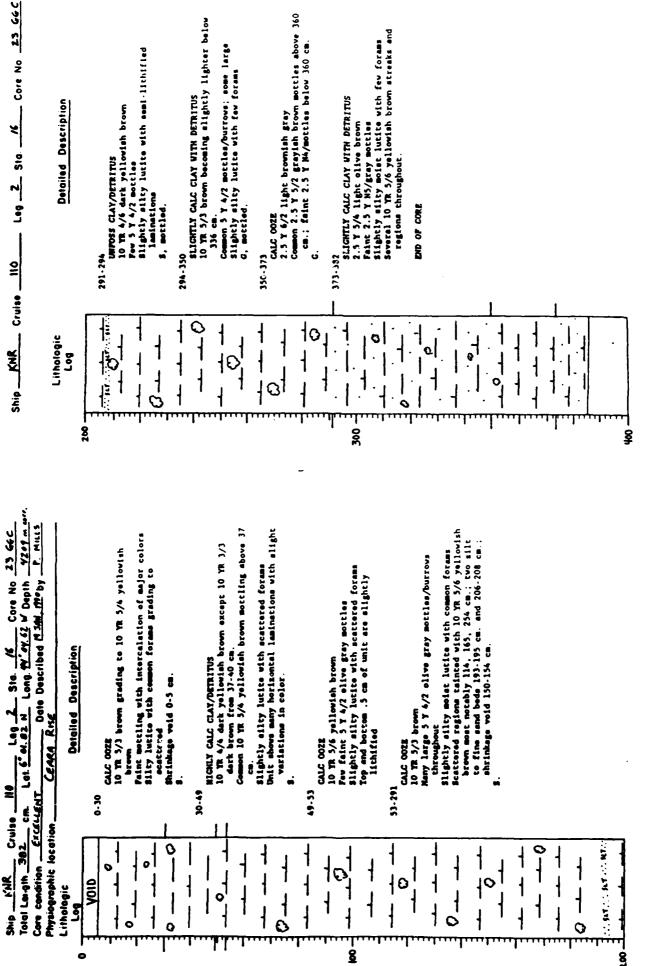
Core No. 22JGC

Ship:

Leg 4 Sto. 15 Core No 44 JGC HIGHLY CALC CLAY

10YR 5/2 grayish brown
scattered mottling becomes common below 442 cm.
smooth lutite with forame becoming common below
446 cm.
very faint 7.5YR 5/6 strong brown layer from 437440 cm. Page 2 of 2 CALC GOZE
10YR 5/3 brown
faint to no mottling throughout unit
emooth lutite with forams meattered to common Detailed Description END OF CORE... VISUAL CORE DESCRIPTION 437-451 413-437 Ship Kaort Cruise 110 એ જ Lithologic Log \$

ğ 5	Expedition 110 Leg No. 2	1.			Sta Tot	Station No. 15 Total Core Length	وَ ا	15 agth		153	Ì	€		
					53	ESTIMATED ABUNDANCES (X)	0 A6	MDAN	ES (1		!	;	
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lEVEL	SEDIMENT	Setrital znisng	Micronodules	Zeolites	Volcanic Sbrads	CIN	2m6=03	2[1220TonnsM	25000193	279326032 PG	2 sheirs	2mo16i0	6176101b6A	\$ a buod\$
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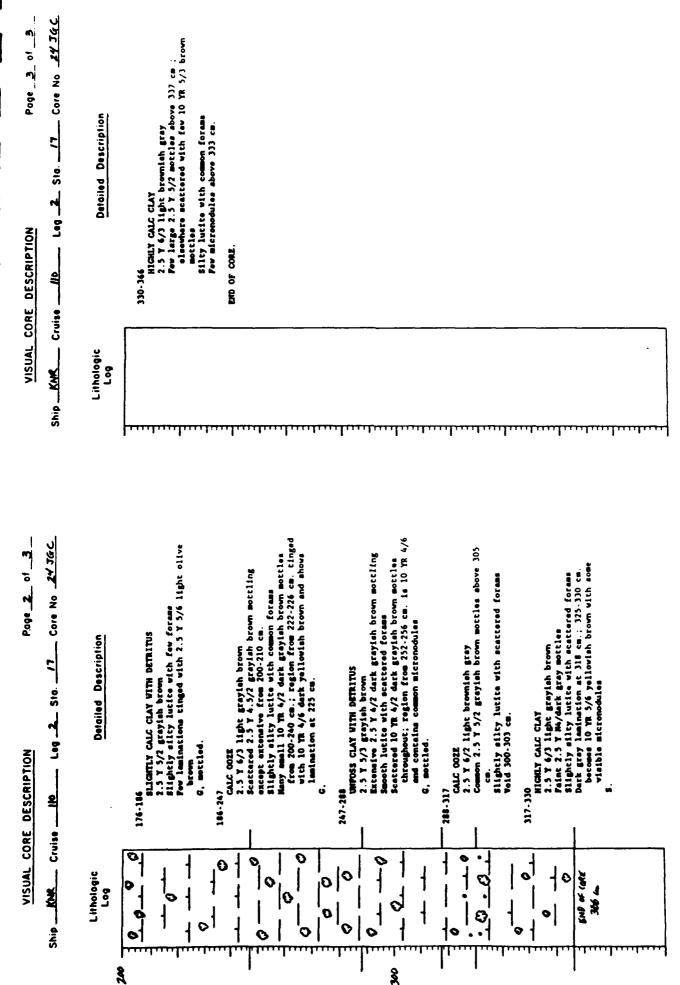


VISUAL CORE DESCRIPTION

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Page / of

DESCRIPTION Page 1 of 3	Lot Kip 29 M	Description	0-17 CALC 002E	10 YR 5/2 grayteh brown grading to 10 YR 5/4	Faint mettling with intercalation Silty lutite with forame grading from abundant to common	17-31 HIGHLY CALC CLAY/MICROMODULES 19 TR 4/3 brown but 10 YR 6/4 light yellowish brown below 25 cm.	Scattered 10 YR 6/3 pale brown mottles above 22	Slightly elity lutite with common forans Many 10 YR 1/3 dark brown lastrations	9.	31-40 HIGHLY CALC CLAY	10 WR 5/6 yellowish brown but 2.5 Y 5/2 grayish brown from 34-37 cm.	Slightly silty lutite with scattered foress silty leminations at 12 % cm · 32.60 cm is	semi-lithified layer with high manganese content \$.	40-176	CALC COZE 2.5 Y 6/2 light brownish gray with varying degrees	of 2.5 Y 6/4 light yallowish brown Common to extensive 2.5 Y 4.5/2 gravish brown	mottling throughout Slightly ellty lutite with common foress	Several laminations tinged with 10 YR 5/6 yellewish brown most notably at 47, 118.119.	143-146, and 166 cm.						1
VISUAL CORE DESCRIPTION	KNR of mattion focation focati	0 100	1	 	Snoa	Sponoes	1		1	1		1	100		9	0	† † † † † † † † † † † † † † † † † † †	1	1	1	0	1		101	
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SHEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES	Ship: Kur Expedition 110	No. 2			SEDIMENT	JAVT.	CALC 00ZE	CALC DOZE	HIGHLY CALC CLAY/DETRITUS	CALC 002E	CALC 00ZE	PETRITAL GRAIN	UNFOSS CLAY/ DETRITUS	SLIGHTLY CALC	CALC OOZE	SLIGHTLY CALC									
	Ship:	Leg Ro.			TENET		٠	41	73	12	120	207	293	330	98	<u>8</u>									



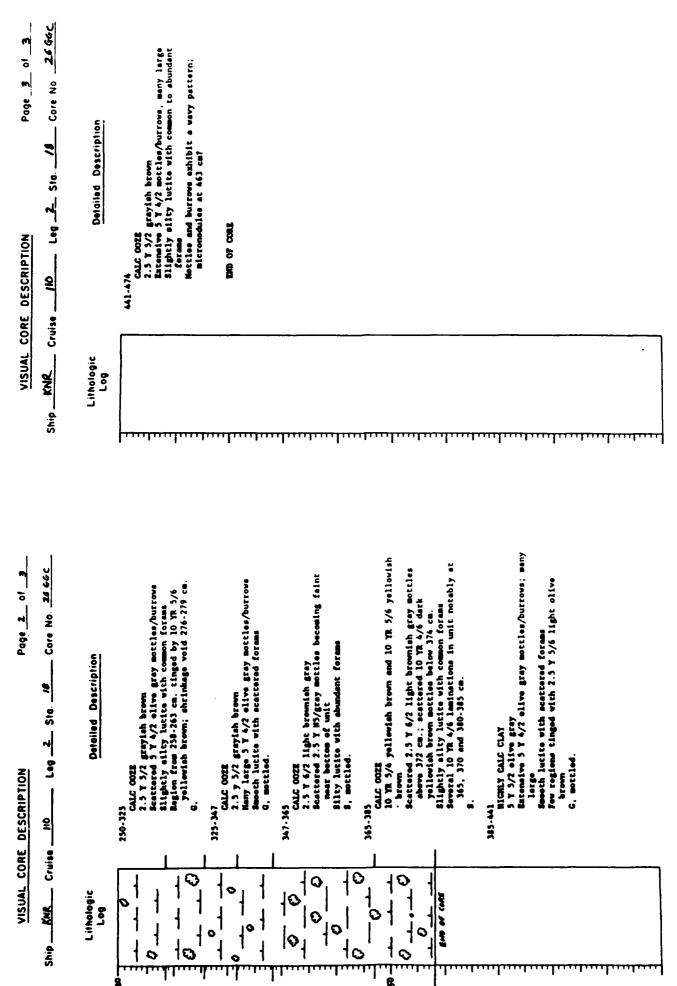
SHEAR SLIDE DESCRIPTIONS - N.H.O.I. SEDIMENT CORES

Poge 1 of 1.

' E JI	CALC GOZE		February 10 TM 3/1 Grey Bottling	G, mottled.	12-23	10 YR 3/4 yelloulsh brown	Fant 10 TK 6/3 pale brown mottles throughout Slightly slity lutice with common forans G.	23-39	CALC COZE 10 YR 4/4 dark vellowish brown and 10 YR 4/3 dark	brown Scattered 10 YR 5/4 yellowish brown :mottling and	intercalation of major colors Slightly silty lutite with common forans	For microhodules?	39.47	CALC 002E 10 YR 5/4 yellowish brown	Few 10 YR 4/4 dark yellowish brown mottles Slightly silty lutite with common forams	·	47-52 Michly Calc Clay	10 YR 5/6 yellowish brown Few faint 2.5 Y 4/2 dark grayish brown mottles	near unit base Silty lutite with scattered forans	Unit exhibits several leminations; semi-lithified lemination at base		END OF CORE			
Total Length 52 c. Core condition EVEL Physiographic location Lithologic Log	1	- - 	ਾ •	1	1	1 1 1 1 2	7	- -	10	\ - - -	֧֧֡֟֡֟֓֓֟֓֓֓֟֟֓֓֓֓֓֓֟֓֓֓֟֟֓֓֓֟֓֓֟֟֓֓֟֟֓֓	1	 -	20 0 - 0 - 0	END OF COCK	,,,,,	****	711	.1.	111	111	чv	-11	• • • • • • • • • • • • • • • • • • • •	
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Ition 110					SEDINENT	74 74		CALC 00ZE	HIGHLY CALC C	HIGHLY CALC	CALC 00ZE	CALC 002E W/ DETRITUS	SLIGHTLY CALC	3200 CALC	UNFOSS CLAY W/DETRITUS	CALC 002E	CLAY CLAY CALC	HIGHLY CALC							
Ship: Expedition Leg No.					TENET			s	72		011	16.2	182	215	265			3							

SIEAR SLIDE DESCRIPTIONS - M.H.O.I. SEDIMENT CORES

Cruise IIO Leg 2 Sto. 10 Core No. 25 66c. 77 cm. Lot. 27.23 4 Long. 21'22.51 V Depth 4025	CALC 002E 10 YR 5/3 brown 10 YR 5/1 gray mottles Few faint 10 YR 5/1 gray mottles Silty lutite with abundant forans Shrinkage wold 0-5 cm.	13-27 CALC DOZE 10 TR 5/4 yellowish brown 10 TR 5/3 brown mottles above 20 cm. Flightly silty lutite with scattered forms Several 10 TR 3/3 dark brown laminations G.	27.31 CASE DATE MICEAUDINI RE	10 VR 5/6 yellowish brown	Faint 5 T 4/Z olive gray mottles Silty lutite with few forems Slankily lithiffed lamination at top of unit		31-231 CALC GOZE 10 YR 5/4 lisht olive brown	Common 5 Y 4/2 olive gray mottles/burrows; some large	Sightly silty lutte with comson lotans Few regions tinged by 10 TR 5/6 yellowish brown most notably at 94, 172, 194 cm.	6. 231-250	CALC GOZE 2.5 Y 6/2 light brownish gray control of the control of	Stiry lutite with abundant forass	·	ł		
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TOR 110	SEDIMENT	TYPE CALC OOZE	CALC 00ZE	CALC OOZE	CALC 002E	HICHLY CALC CL										
Ship: Expedition Leg No.		רנאנו	19	33	53	8										



SPEAR SLIDE DESCRIPTIONS - N.H.O.I. SEDIMENT CORES

Poge 1 of 2

Cruise 110 Leg 2 Sto. 19 Core No 27 GGC 356 cm. Lot 5° 36.46' N Long 47' 04.69' W Depth 3967 m cm. EXCELLENT Date Described 24.784 1970by P. MILLS location CEARA RISE	Detailed Description		0-16		Faint 10 TR 4/3 dark brown and 10 YR 5/1 gray antiles Sittles Sittles Sold lutite with abundant forass Core top is substantially shrunken and is convex upward. Shrinkage void 0-5 cm. G.	CALC 002E	Faint 10 yr 6/3 pale brown mottles throughout Slightly ally luties with common forest	.9	29-57 CALC DOZE WITH MICROMODULES	10 YR 4/4 dark yellowish brown with 10 YR 3/3 dark brown lasinations	Few 10 TR 5/6 yellowish brown mottles above 40 cm.; otherwise intercalation of major colors	Slightly silty lutite with common forans becoming scattered below 40 cm.	•	57.64 HIGHLY CALC CLAY WITH MICROMODULES	10 YR 5/6 yallowish brown Few large 5 Y 5/2 olive gray motifies herees you	and bottom layers of unit		unit	;					
Ship KNR Cruise Total Length 356 cm. Core condition EXCELLE Physiographic location		GIOA	0		40,1			 0	 	c	1	\$ 1.5 1.5	1	C .	-	 ⁽³⁾	- - - 	1	} 	1 1	100		1	0 1
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Ship	Expe	Leg To.			LEWEL	8	20	30	02	150	220	240	290	340	356	375	410	760	473					

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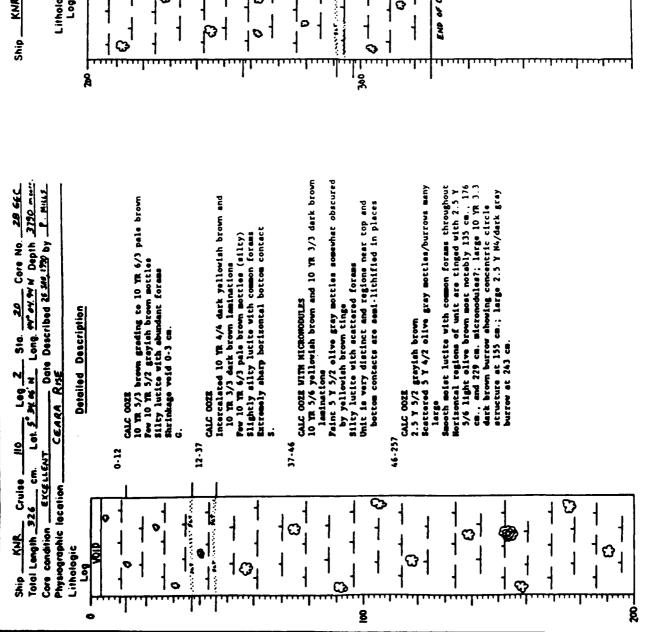
Ship KHR Cruise 110 Leg 2 Sto. 19 Core No 27 66C

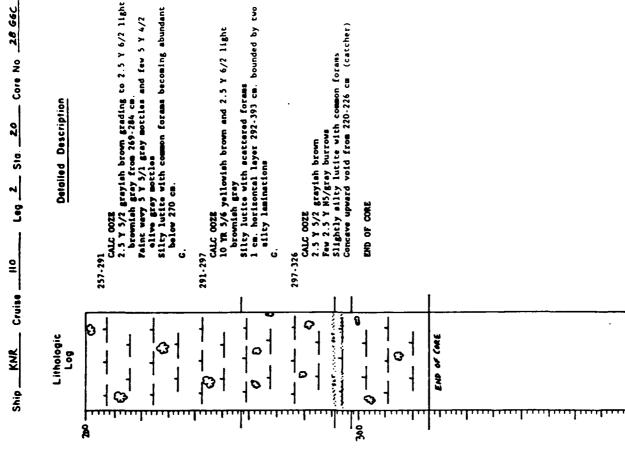
VISUAL CORE DESCRIPTION

SEDIMENT CORES

Expedition 1 Leg No. SEDIMENT VEL TYPE 10 CALC OOZE VALUERONDOU 11 CALC OOZE VALUERONDOU 12 CALC OOZE VALUERONDOU 13 CALC OOZE CALC OOZE VALUERONDOU 14 CALC OOZE CALC OOZE CALC OOZE VALUERONDOU 15 CALC OOZE CALC OOZE CALC OOZE VALUERONDOU 16 CALC OOZE CALC OOZE VALUERONDOU 17 CALC OOZE CALC OOZE VALUERONDOU 18 CALC OOZE	CALC 002E
Ship: Expedit Leg No. 10 C. 10 C. 12 C. 25 C. 26 C. 200 C. 260 C. 260 C.	390 130 134
64-294 CALC GOZE 2.5 Y 6/4 light yellowish brown Seattered 5 Y 5/2 elive gray mottles/burrows; many large Slightly silty moist lutite with common forass grading to scattered below 235 cm. Few resions tinged with 10, 157, 230 and 229 cm.; large 2.5 Y M4/gray burrow at 211 cm.; small RY/black burrow at 211 cm. Shrinkage voids from 119-121 cm. and 238-242 cm. C. mottled. 294-320 CALC GOZE 10 YR 5/3 brown grading to 10 YR 6/2 light brownish gray gray gray gray gray sections 511cy lutite with common forass becoming abundant below 305 cm. CALC GOZE 2.5 Y 5/4 light elive brown	Few 2.5 Y R5/gray mottles Smooth lutite with common forms Region from 310-339 cm. is tainted with 10 YR 5/6 yellowish brown G. 339-356 CALC GOZE 10 YR 5/3 brown Few 2.5 Y R4/dark gray mottles \$lightly silty lutite with abundant forms END OF COME
Lithologic Log of the control of the	

Shtp: Exped	Ship: KNR Expedition Lin	,			S 5	Core NoStation No.	اا	27660	ا_ ان					
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VISUAL CORE DESCRIPTION

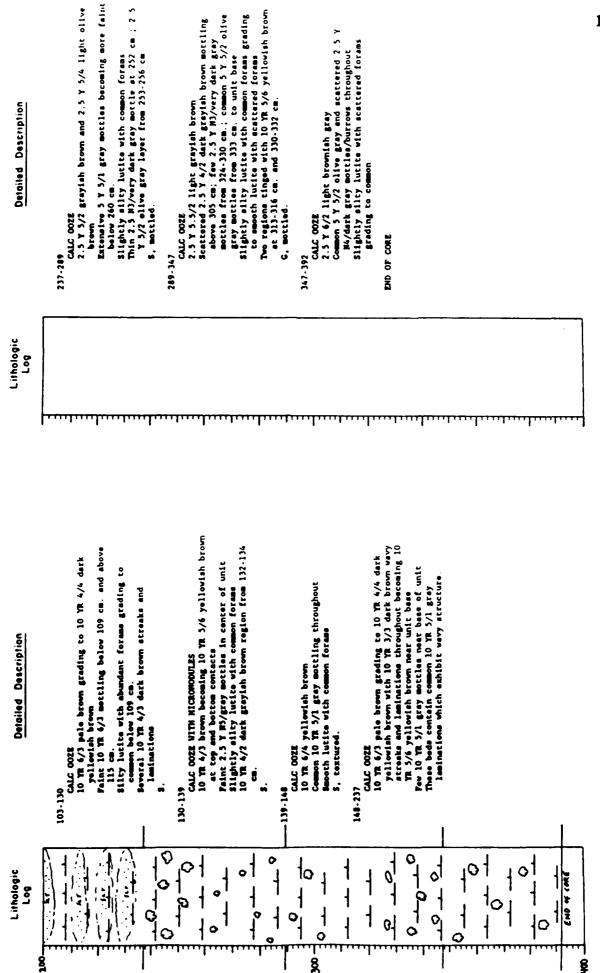
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SHEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIPENT CORES

Cruise 110 Leg 2 Sta 20 Core No 29 166 38 18 Cotton 184 5 12 Cotton 184 18 18 18 18 18 18 18 18 18 18 18 18 18	_	10TR 3/4 yellowish brown, top 3 cm. are 10YR 5/3 brown ecettered mottling	19-40 WICHLY CALC CLAY WICHLY CALC CLAY WICH 4/4 derk yellowish brown scattered mottling luite with common foreas unit is commonly intercalated with darker material.	Bottom I cm is 10TR 4/6 dark yellowish brown indurated debris layer	S, horizontal	40-234 HIGHLY CALC CLAY	107R 5/3 brown common mottling	luite with common forams some 10VR 4/6 dark yellowish brown "stained" areas	3 e c c c c c c c c c c c c c c c c c c	HIGHLY CALC CLAY	nighly waitable, but mainly 1078 b/3 pale brown langely unmotified, but commonly motified from	lutte with common forams, except from 295-310 cm	10th 4/6 dark yellowish brown from 249-254, and	S, borisontal	318-384	NIGHT, CALC CLAY 1078 5/3 brown	componly mottled lutite with common foress	END OF CORE				
Ship Knorr Cruise Total Length 38% on Core condition Excelled Physiographic location Lithologic	1		10 1 1	10			4	1 1	<u>ا</u>	2 1 083	1 1	3 -	1 1	1	4		T	1 0 1	1	——————————————————————————————————————	1 + 0 - 1 + 0 - 1	T
Core No. 28GGC Station No. 20 Cm	ESTIMATED ABUNDANCES (%)	Biogenous Material	Forents Rennotossils Pteropods Discoasters Others	23 25 45 3 TR 1	40 7 39 1	45 4 34 TR	34 3 60 TR	40 5 43 1	55 4 36 1	33 15 45 2	50 6 34 2	34 15 45 1										
		Ingrante Naterial	Molcanic Molcanic	CALC 002E 1 2	CALC 002E 3 10	CALC GOZE W/		CALC GOZE 8 3	CALC GOZE 10 2	CALC DOZE 4 1	CALC OOZE 3 5	CALC 00ZE 2 3										
Ship: Expedit			LEVEL	\$	25	07	100	175	235	275	295	320										

SPEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

110 Le cm. Lat. <u>5°28.</u> WENT	ON CEARA RISE	Detailed Description	0-22 CALC 002P	10 YR 5/3 brown grading to 10 YR 6/3 pale brown to	Silve lutite with shundent forest eredice of	Shrinkage void 0-3 cm. G. 22-50 CALC 002F I O'R 5/4 yellowish brown and 10 YR 4/2 dark	Faint 10 YR 6/3 mottles; unit displays intercalation of major colors	Slightly silty lutite with common forans S.	50.59	CALC OOZE 10 YR 5/3 brown grading to 10 YR 5/6 yellowish	brown at top and bottom contacts Faint 2.5 YR N5/gray mottles in middle of unit	Slightly ellty lutite with common forams l cm. thick 10 YR 4/2 dark grayish brown region at	S. 5.	59-69	CALC 002E 10 YR 6/4 light yellowish brown	Common 10 YR 5/1 gray mottling throughout Smooth lutite with common forans	S. textural	69-103 CALC 002E	10 YR 6/3 pale brown grading to 10 YR 4/4 dark yellowish brown	Faint 10 YR 6/3 mottles balow 75 cm. Several thin 10 YR 4/3 dark brown ;streaks and	lastnations S, testural and color.				
Ship KNR Cruise Total Length 392 cm. Core condition EXCELE	Physiographic location	100		1	— - - - -		6	10	 	1000	+ +	† o	3	1	 	+	1	3		1 1		† †	0		1111
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Leg 2 Sto 21

Ship KMR Cruise NO

Leg 2 Sto. 21 Core No 30 66C

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Ship KWR Cruise

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VISUAL CORE DESCRIPTION

Page 3 of 3

SHEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES ,

RE DESCRIPTION	Cruise IIO Leg 2 Sto. 22 Core No. 3/6/6/C Excellent Long 44"est 1 Depth 35/32 m Central Rive Date Described 4/25/87 by Articles Detailed Description	MICHIN CALC CLAY 10YR 5/4 yellowish brown sectioned mottling		zone of common intercalation, including heavy from 19-24 cm.	S, horizontal	49-235 HIGHLY CALC CLAY	2.5% 5/4 light olive brown common mottling	utite with common forams y thin (50.5 cm) 10YR 4/6	brown indurated debtils layer. Others to 46 cm.	235-311	IONE 6/4 light yellowish brown, except for 288-294 cm	which is 10TR 3/3 brown scrept from 256-282	cm. where there is none emoch justice with common forans, bottom 7 cm. has	soundant totals says color variations downcore, dark yellowish brown	tint ifom 244-14/, 283-280 cm. S, horizontal	311-356	107R 5/4 yellowish brown	smooth lutite with common forms, except botton	6 cm which has abundant forems top 7 cm is dark yellowish brown (1918 5/6)	eteined	END OF CORE	
VISUAL CORE	Ship Kanach Cruise 110 Total Length 356 cm, Lat. 55 Core condition 846 lbm Physiographic location 62 mm River Lithologic Lot CTILERE	1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	111111111111111111111111111111111111111	4	4	1	1	110	707	- - - - -		94	 	 	200		, -{ -{ -{ -{ -{ -{ -{ -{ -{ -{ -{ -{ -{ -	1 0 1	1	end of love	· >
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res .	392	S Materia	Эсрега	\$	-	7	at -	-	1	-	-	3	6 TR	2	2	-	-		-			
SHEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES	Core No. 30CCC Station No. 21 Total Core Length	ESTIMATED ABUNDANCES (X)	Portes	40 30	2 42	3 45	3 44	18 31	07 7	07 8	6 55	2 40	45 30	12 40	7	6 35	15 28					
10MS - W.M.O.1	Core No. Station No. Total Core I	ESTIPA Inorganic Material Silt & Sand	Zeolites Volcanic Clay	22	8	35	0+	80	39	33	32	22	10	3.	£	\$	\$	-			-	
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SPEAR SI	KWR 110		SEDIMENT	CALC DOZE	CALC 0)ZE	CALC 002E	CALC 002E	CALC OOZE	CALC 002E	CALC OOZE W/	CALC 002E	CALC DOZE W/ MICRONODULES	CALC OOZE	CALC OOZE	CALC 002E	CALC GOZE	2Z00 5TV3					
	Ship:Expedition teg No		ונאנו	S	2	S	65	85	120	135	165	175	2112	270	325	317	390					

SMEAR SLIDE DESCRIPTIONS - N.H.O.I. SEDIMENT CORES

VISUAL CORE DESCRIPTION

	U.I. CALC COZE 10 TR 5/2 gravish brown grading to 10 YR 6/3 pale	brown grading to 10 YR 5/4 yellouish brown	Scattered 10 YR 4/1 dark gray and fair 10 YR 6/3 pale brown mottles Silly lutte with abundant forams grading to common S, mottled. 17.49 CALC GOZE WITH MICRONOBULES 10 YR 4/4 dark yellowish brown grading to 10 YR	5/4 yellowish brown Scattered 10 YR 6/3 pale brown mottles above 26	Slightly silty lutite with common forans	Large 10 YR 7/4 very pale brown burrow at 23 cm . unit contains many 10 YR 3/3 dark brown	laminations; highest concentration from 26-30 cm.	Very, S.	49-52 CALC 002E	10 YR 5/4 yellowish brown and 10 YR 5/6 yellowish brown at top and bottom contacts	Faint 2.5 Y 4/2 dark grayish brown mottles Slightly silty lutite with common forans	Top and bottom contacts are very silty (Bn oxide?) 10 YR \$/6 yellowish brown	Very S.	52-200 CALC 002E	10 YR 3/3 brown Scattered 2.5 Y 4/2 dark grayish brown nottles;	some large Slightly silty lutite with common forans	throughout Large 2.5 Y M5/gray burrow 91-92 cm.; few 2.5 Y	3/2 very dark grayish brown mottles 158-161 cm., shrinkage void 111-114 cm.	·			
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Ship: Knorr Expedition 110			SEDIMENT	highly calc	:	:	:	calc clay	highly calc													
Ship:Expedit			LEVEL	6 cm	25	%	170	240	320													

Ship KNR Cruise 110 Leg Z S10 22 Core No 32 GGC	Lithologic Log	114-136 OLIC CORE COLIC CORE Partial Brown grading to 2.5 V 4/2 light Demonth gray Partial with forecalation Slightly slicy lutte with common foress END OF CORE
VISUAL CORE DESCRIPTION Page 2 of 3	Lithologic Detailed Description	100 To 10 the characteristics 10 The Cype is been and 10 Th 5/1 gray with interestation 10 Th 5/3 paie been and 10 Th 5/1 gray with interestation 10 Th 5/3 brown 10 Th 5/4 browning the promeine forms 10 Th 5/4 browning the promeine forms 10 Th 5/4 brown 10 Th 5/4 browning the promeine forms 10 Th 5/4 browning the promeine forms 10 Th 5/4 browning the promeine forms 10 Th 5/4 brown 10 Th 5/4 browning the promeine forms 10 Th 5/4 brown 10 Th 5/4 brown 10 Th 5/4 brown 10 Th 5/4 brown 10 Th 5/4 browning the promeine forms 10 Th 5/4 brown 10 Th 5/4 browning the promeine forms 10 Th 5/4 browning th

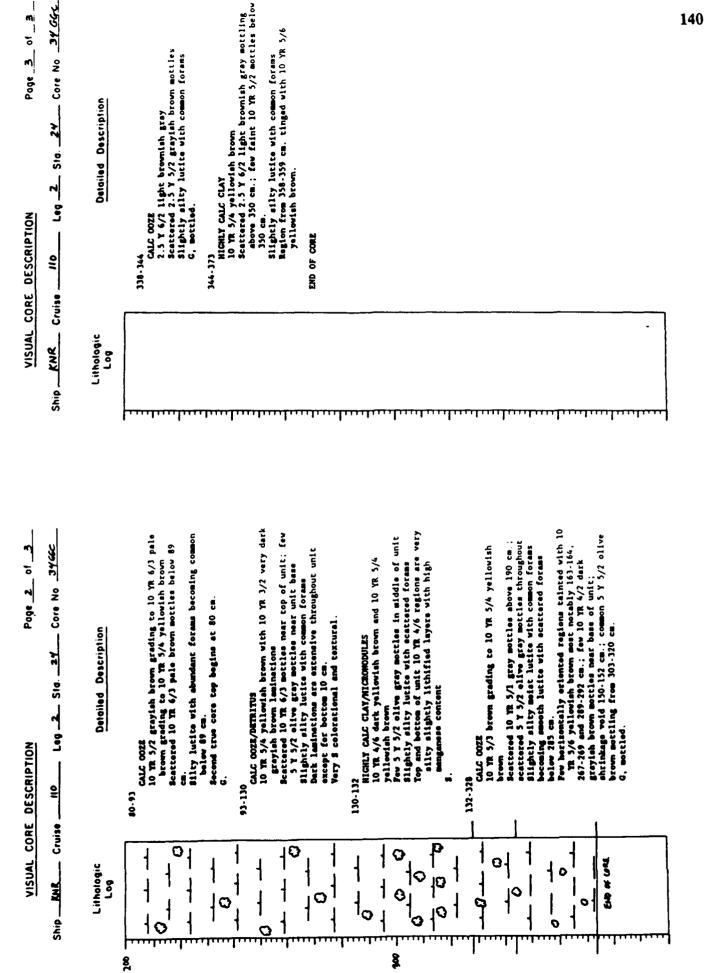
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SHEAR SLIDE DESCRIPTIONS
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cm Lat. 5 22.6% Long West W Depth 3100m. [ent Lat. 5 22.6% Long West W Depth 3100m. [ent Lat. 5 22.6% Date Described (1550b) 2441.	Detailed Description		-	IUIR 3/4 Yellowlen brown acattered mottline	lutite with abundant forams	0-2 cm: void 6 In-62 HIGHLY CALC CLAY 1078 5/8 yellowish brown scattered mottling lutter with common forams	extensive intercalation from 23-41 cm, and from 52-53 cm. 107R 4/6 dark yellowish brown indurated	debrie from 58-59 cm.	62-273	HIGHLY CALC CLAY 10YR 5/3 brown	mottling warled from common to faint throughout lutite with common forams	JUIK 4/6 dark yellowish brown "stained" areas at 197cm, 200 cm, and from 216-216 cm.	END OF CORE											
Ship Kararr Cruise IID. Total Length 223 cm. Lat. Core condition 22Cellent Physiographic tocation Ceam		TOTTO	1 1	1 1 6 1	٠ ١	8 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	1 4 4 4	1	+ + 4	1 - 1			97	 -	9	1 1 1	0 1	- and of the	<u> </u>		سر	 	·····	
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32	Station No. 22	Total Core Length	ESTIMATED ABUNDANCES (S)	Blo	Celce	CTay Remofossils		27 30 30	36 3 40	45 7 35	40 8 43	30 10 36	25 45 21	40 7 45	45 15 34	45 8 39	50 12 32							
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DIR	Expedition 110					SEDINENT TYPE	CALC 00ZE	CALC 002E	CALC GOZE W7	CALC 002E	CALC 002E	CALC 002E	CALC 00ZE	CALC 00ZE	CALC 00ZE	CALC 00ZE	CALC 00ZE							
Ship:	Exped	Leg No.				TENET	2	12	35	51	100	175	203	250	275	300	335							

SPEAR SLIDE DESCRIPTIONS - M.H.O.1. SEDINENT CORES.

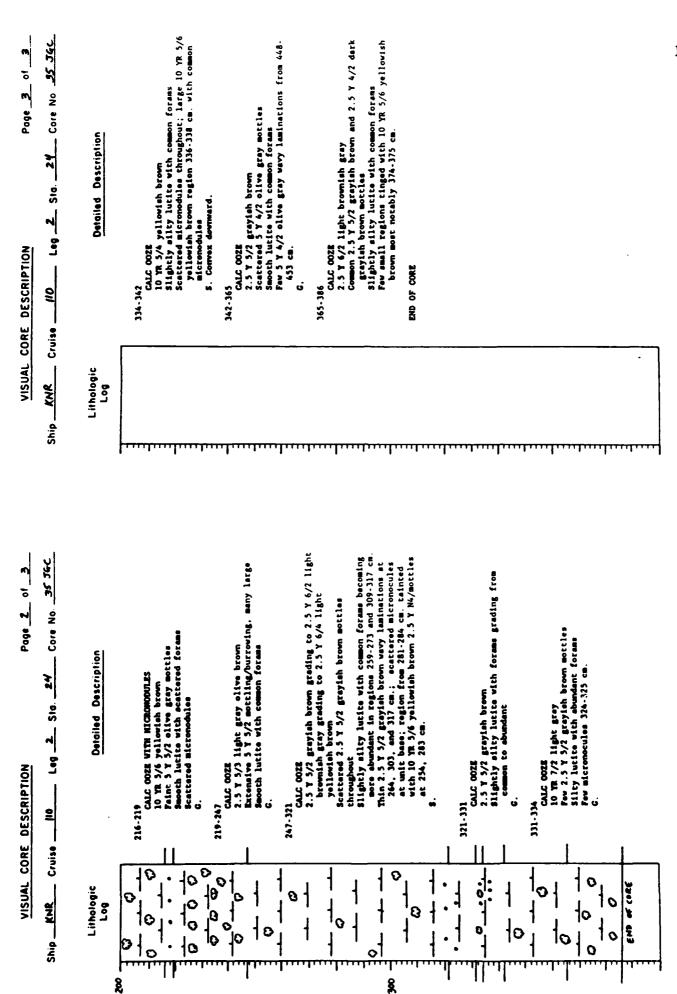
Poge 1 of 3

Cruise 110 Leg 2 Sto. 24 Core No. 24 666. 20 cm. Lat. 5.86.49 N. Long 11.80 M Depth 3292 ssr Excettent Date Described (188, 1990 by P. Mists	Detailed Description		0.27	CALC GOZE 10 TR 5/2 grayish brown grading to 10 YR 6/3 pale	brown grading to 10 YR 5/4 yellowish brown Scattered 10 YR 5/1 gray and 10 YR 6/3 pale brown	sottling Silty lutite with abundant forans grading to			27-38 CALC DOZE WITH MICRONOBULES	10 IR 3/4 yellowish brown with 10 YR 3/2 very dark grayish brown lasinations	Few 10 YR 6/4 light yellowish brown and 10 YR 6/3	pale brown mottles Slightly allty lutice with common forans	Dark grayish brown leminations are extensive and occur throughout the unit	S, colorational and textural.	54.75	CALC COZE 10 YR 5/2 grayish brown grading to 10 YR 6/2 light	brownleh gray grading to 10 YR 5/4 yellowish brown	Scattered 10 TR 6/3 pale brown mottling below 66	Most likely represents repenetration top of core)	S, irregular but convex upward.	75-80 CALC 002E	10 YR 5/2 grayish brown grading to 10 YR 6/3 pale brown	Silty lutite with abundant forms and representation	S, color convex upward.					
Ship KNR Cruise Total Length 300 Core condition EXC	Lithologic Log	V010		0	10	10	1	·	. 6		1, 10	8		 	1	8			+++++++++++++++++++++++++++++++++++++++	6	- 2130 JAT 346	+		MA	 	1 1	+	 	_
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	160. 23	lotal tore Length	ESTIMATED ABUNDANCES (X)	Calcarous Mater			spo sso	forns qores goves	0		3 8 1	3 18	3 10	╁	╀												 - - - - - - - - - -		
8 8 8	Station No.	19201	ESTIMA	Ingraphic Meterial		səţ	8-16 (npo	teron 31fo)Z		Tr 2 81	Tr 1 74	16	,															
Ship: Knorr	Expedition 110	Leg no.				SEDIMENT	TYPE			•	48 C18Y	011	: :		+														



SIEAR SLIDE DESCRIPTIONS - N.H.O.I. SEDINENT CORES

- 43 AT	CALC DOZZ	10 YR 5/2 grayish brown grading to 10 YR 6/3 pale brown grading to 10 YR 5/4 yellowish brown	Faint 10 TR 5/2 grayish brown mottling Very silty lutice with abundant forans grading to alightly silty lutice with common forans shrinkage wold 0.2 cm. 16.35 CALC GOZE WITH MICROMODULES 10 TR 5/4 yellowish brown with many 10 YR 3/2 very	dark graylah brown laminations Faint mottiing with intercalation Slightly silty lutite with common forams	Dark grayleh brown leminations are extensive and comprise 50 % of the unit	Very S, textural	35-41 HIGHLY CALC CLAY WITH MICRONODULES	brown brown and to it 3/6 yellouish	Faint 4.3 1 3/4 graysan brown mottres infoughout Slightly siley little with common forms.	lamination three very size, to 7/0 Laminations that are seel-lithified. These are	at the top and base of the unit and at 34 cm.	41-216	2.5 Y 5/3 light grayish olive brown scenes sources	large becould common below 197 cm.	Large 10 TR 5/1 gray burrow 57-62 cm. fev	regions tained with 10 Mm 3/0 yellowish brown most notably 88-89, 127-128, 197 cm.; shrinkage	Vois 42:30 cm. 5, colorational.					
Ship KNR Cruise Total Length 386 C Core condition EKKE Physiographic location. Lithologic Log	1	·	dlov	1 10	1	f	31	} 	D	3	1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	7	} }	111	 	1	3 .		1 6	·	
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2 S			SEDIMENT TYPE	CALC 00ZE	CALC DOZE	CALC OOZE W/	CALC DOZE	CALC 002E	HIGHLY CALC C	CALC DOZE	CALC 00ZE	CALC 002E	CALC DOZE	CALC 002E	HIGHLY CALC							
Ship: _ Expedit			ונגנו	_	92	\$\$	88	120	130	180	240	298	320	338	365							



SIEAR SLIDE DESCRIPTIONS - M.H.O.I. SEDIMENT CORES

	MIGHLY CALC CLAY 107R 6/3 pale brown	scattered mottling	9	15-64 NICHLY CALC CLAY 10YR 5/4 yellowish brown faint mottling smooth lutite with common foress heavily interealsted from 26 cm to base of unit with Assubartal	S, horizontel	64-112 HIGHLY CALC CLAY	2.5% 5/4 light olive brown scattered mottling	emooth lutite with scattered forams 64-65 & 70-72 cm is 10YR 4/6 dark yellowish brown	ice-rafted debrie	112-140	HIGHLY CALC CLAY 10TR 5/4 yellowish brown	faint mottling amooth lutite with scattered forams from 116 to base	of unit abundant forams down to li6 cm, 10YR 5/2 grayish	brown to 113 cm, then 107R 6/3 pale brown to 116 cm. Heavily intercalated from 119-121, and from 127-	137 cm. S, horizontel	140-312	HIGHLY CALC CLAY 2.5Y 5/4 light olive brown	common mottling emoon forans	top 1 cm is 10YR 4/6 dark yellowish brown ice-raited material. Several thin (0.5cm) 10YR 4/6 dark	yellowish brown "stained" areas throughout interval.		
Ship Karate Cruise 110 Total Length 35/ cm L Core condition 27/2016 the Physiographic location Open Lithologic Log	1			1 1 1 1		1 1	1010	, 1	 	1	-1 -1	+ 0 +	1	 	4 4	-0+	1	0	1 1	0 1	and of cone	>
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Core No. 35 Station No Total Core Length	ESTIMATED ABUNDANCES (X)	+	ل	Clay	23	32	35	35	\$\$	-£	9	*	3	8	3	9	=	ž	3	3	十	7
Core No. Station Total Co	ES	व	Τ	Shards Shards	-								7	1	7	\neg			1	_	十	7
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		Ingragnic Material	311.6	grains Micronodules Zeolites	-	13				_	20	9	7	7	2 9	1	7	6 6	7	-	+	
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Ship: Kun Expedition 110 9		Ingreente Mate	200 0 311C	grains Micronodules Zeolites	-	CALC GOZE / 15	S E	^		3) /n /n	•	\dashv	\dashv	┵	CALC 002E 2 1	•	\dashv	\dashv	CALC DOZE 3 3		T

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DESCRIPTIONS
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Poge 2 of 2

Ship Knorr Cruise 110 Leg 2 Stg. 25 Core No. 36000

Lithologic Log

VISUAL CORE DESCRIPTION

(631-13-50 F F F F F F F F F F F F F F F F F F F	SC Sulfer of the state of the s	Signatural Saluration	1		13 mg th more string of the st	151 (3) Signal S	2 2 0 2 2 0 2 6 2 6 6 6 6 6 6 6 6 6 6 6	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
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Detailed Description

312-351

RIGHLY CALC CLAY
10TR 6/4 11ght yellowish brown
ecattered to common mottling
smooth lutite with acattered foram
manganese micro-nodule areas noted

END OF CORE...

E DESCRIPTION	cm Let 5° pt. et Nong cre. 70 W Depth 3194 m cor. Excessent Itien CEARA Rise Detailed Description	0-7 Shrinkage void. 7-95 Stratigraphy interrupted by multiple penetrations	95-110 CALC 002E 2.5 Y 4/2 dark grayish brown grading to 10 YR 6/3 pale brown grading to 10 YR 5/4 yellovish brown Common mottling with intercalation Silty luttle with abundant forame grading to common below 105 cm.	110-130 CALC GOZE WITH MICAGNOBULES 10 TR 5/4 brown with many 10 TR 3/2 very dark grapish brown leminations Few 10 TR 6/3 pale brown mottles \$11ghtly ality lutte with common forens 10 TR 3/2 leminations are most concentrated in the region 118-123 cm.	130-140 CALC 002E 10 YR 5/3 brown Scartered 2.5 Y 4/2 dark grayish brown mottling Sightly silty lutite with common forms Top and bottom 1 cm. of unit are 10 YR 5/6 yellowish brown; silty semi-lithified layers; few 10 YR 4/3 brown laminations 131-133 cm. S, colorational and textural.	140-170 CALC 002E 2.5 T 5/2 grayish brown 8.5crteared 2.5 Y 14/gray and 2.5 Y 4/2 dark grayish 8.5crteared 2.5 Y 14/gray and 2.5 Y 4/2 dark grayish brown accides 8.5coth lutite with common foreas Thin herizental regions tinged with 10 YR 5/6 yellowish brown at 160-161 and 168, 169 cm.	Mote: The top 75 cm. of this core is best represented by the stratigraphy present from 95 to 170 cm. Below 180 cm. the dore shows a sexies of repenetrations.
VISUAL CORE	Ship KMR Crulse Total Length 4/29 cr Core condition Exces Physiographic location Lithologic		8		\$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	3 -	700 % est

SHEAR SLIDE DESCRIPTIONS - W.H.O.1. SEDIMENT CORES

Core No. 37 GGC Station No. 26

Expedition 110 Ship: KNR

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428	£)		Ş	Discoasters																
	53	Blogenous	Calcareous	2boqo1919																
ngth .	ESTIMATED ABUNDANCES (X)	8	3	2[1220] OnnsH	7.7	0,4	34	=	57											
e Le	97			2Mg-10-l	0,4	4	•	3	•											
Total Core Length	IMATE			Clay	25	31	4.5	25	39											
Tot	ES	erial	Sand	Volcanic Volcanic																
		C Met	& San	sealtoes																Γ
		Inorganic	3115	Micronodules		20	10	8	\$											
		Ino		fatinted znianp	2	1	2	9	2											
.00				SEDIMENT TYPE	CALC 002E	CALC GOZE W/	CALC OOZE	HIGHLY CALC CL	CALC 00ZE											
Leg No.				LEVEL	100	122	135	140	160											

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Date Described 4/12/89 by Dans Ship Kant Cryise 110

Physiographic tocation Core condition - eccel Lithologic

SECTION 4 MISSING (0-16cm) Detailed Description MICHLY CALC CLAY 11-91 9-10 0 0

ecctrered mottling smooth lutite with common forame intercalated down to 30 cm., several 10YR 4/6 dark yellowish brown layers in lower most 10 cm of 10YR 5/4 yellowish brown interval

ecattered to common mottling emooth lutite with common forame numerous 10TR 4/6 dark yellowish brown "stained" areas throughout unit. From 200 cm to bese of interval many areas of hn micronodule concentrations are found 2.57 5/4 light olive brown BIGHLY CALC CLAY 44-289

8

10TR 6/3 pale brown; bottom 2 cm slightly lighter faint if any mottles smooth lutite with common forans; forans abundant in bottom 2 cmm.

An bottom 2 cmm.

An bottom 2 cmm. HIGHLY CALC CLAY 289-299

т 8

faint mottling smooth lutite with common forans G (?) masked by break in liner 10TR 5/4 yellowish brown CALC CLAY 299-311

END OF CORE ...

9

smooth lutite with common forans scattered to common mottling

RICHLY CALC CLAY

311-358

B

10TR 5/3 brown

SMEAR SLIDE DESCRIPTIONS - M.H.O.I. SEDIMENT CORES

Total Core Length Station No. 26 Core No. Expedition 110 Ship: Knorr Leg Mo.

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(X)	•		Discoasters	5	80	=	07	6	80	2											
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ESTIMATED ABUNDANCES			Clay	"	7,	0,	7.7	"	98	2,											
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		_	TE VEL	30 cm		170	250	767	305	335											
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ASSOCIATION AND THE PROPERTY OF THE PROPERTY O	Ship rearr Cruise 110 Leg 2 Sta 22 Core No 19666	332-343 CALC 002E 10TR 6/3 pale brown faint mottling below 334 cm.; intercalated (?) smooth luttle with common forams 332-334; two distinct 10TR 5/6 strong brown slightly indurated (?) units. Distinct, very small "blebs" of material within each unit					-
	1	CALC 002E CALC 002E LOTA 6/4 light yellowish brown common moteting throughout with lora 6/3 pale brown matter with abundant forame elight abriahage due to drying	100 CALC 002E 107R 5/6 yellowish brown 107R 5/6 yellowish brown scattered mottling of above 107R 6/4 light yellowish brown material lutite with abundant forame	13-31 NICHLY CALC CLAY 10TR 5/4 yellowish brown 10TR 5/4 yellowish brown heavily intercalated with 10TR 4/4 dark yellowish brown material troughout, except from 22-24 cm, and from 37-28 cm, and from 37-28 cm, and from 57-28 cm, at 3.5 cm, 1/2 cm thick semi indurated 10TR 5/6 atrong brown to 10TR 4/4 dark brown unit	31-32 BIGHLY CALC CLAY IOTH S/3 brown Benoth luttle with few forems S. horisontal S. horisontal CALC CLAY 132-332 CALC COZE IOTH 6/3 pale brown	brown; no mottles from 318-33 cm emoch luttle with common formers from 318-33 cm emoch luttle with common formers from 318-33 cm thick semi-indurated 1078 5/6 strong brown to 1078 4/4 deth brown units. Other 1078 5/6 strong brown regions are from 52 cm, 123-124, and faintly colored areas, from 163-166, 201-205, 231, 239-240 cm.	

Page 2 of 2

VISUAL CORE DESCRIPTION

Poge 1_012

SHEAR SLIDE DESCRIPTIONS - N.H.O.1. SEDIMENT CORES

Poge / of 1

VISUAL CORE DESCRIPTION

_ 5 %	0.19 GALC 002E	10 YR 5/2 grayish brown grading to 10 YR 6/3 pale	Common mottling with intercalation of major colors	Silty lutite with abundant forams grading to common below 13 cm. Shrinkage void 0-2 cm. G. 19-39 19-39 10 YR 4/3 dark yellowish brown with many 10 YR 3/2 very dark grayish brown laminations	Faint 10 YR 6/3 pale brown mottles above 26 cm. Slightly silty lutite with common forams	Dark laminations are most concentrated in the region 25-32 cm.	Very S.		for 19-40 and 44-46 cm. which is 10 YR 5/6	Few 5 Y 5/2 olive gray mottles in central region	Sightly silty lutite with scattered forans	sop and bottom to TR 3/e regions are very silty and silghtly lithified		STOC OOSE	Scattered 5 % 4/1 dark gray and 5 % 4/2 olive gray		Shightly slify lutite with comen torans Shrinkage void 150-153 cm.; several regions		185-186, 219-223, 243 cm. large 2.5 Y N4/dark gray burrows at 120 and 230 cm.	266-313	Sediments disturbed; retained for bulk sampling only.	END OF CORE	ŀ	
JR C Th 315 Hion Hic loco	ļ.,	000	1	137 1 1	+	<u> </u>	6	٠,		1 10	 	1		3 1		G.	† † †	10	1.1	0 0	3 0	 	Berran of Sacross 2	300 - 186 5, 286 - 915 an Difference
	E)		(a) second	Sacroms Redoioseria SepnoqS	Ţ	Ţ	11				\$				-	_	-		-					•
39GGC 27	$\ \cdot\ $	ESTIMATED ABUNDANCES (X)	Calcareous Materi			17	20 h	17 5	16	18	21 6	30	12 13	10										
Core No.	Total Core Length	ESTIMATED	Inorganic Material	Detritel Trains Micronodules Zeolites Volcanic Shards Clay Corans		1	2 2 67 3	2 3 69 4	2 2 69 5	3 2 59 6	2 3 65 3	2 1 60 1	1 2 66 6	2 3 62 8										
Ship: Knazz Expedition 110			<u></u>	SEDIMENT TYPE	calc noze		highly calc	:	:	celc oose	:	:	:	:										
E SPEC	Leg No.			IEWEL	3 6	10	23	32	8	170	240	290	325	339										

SHEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Cruise 180 Log 2 Sto. 28 Core No 4186. 1 cm. Lot 4 46.6 Long 45.43.1 Depth 3315. Exalled 6255 by 0205.	Detailed Description		0.306	Olive brown (2.) Y 4/4) with variation; general	Scattered to common forces; abundant forces at 5.5 to 6 cm. Smooth lutter with common to scattered forces: **Core accidentally frozen before splitting) Area of Mn microndula concentration present: **several dark yellowish brown (10 YR 4/6) areas. G.	306-337	HIGHLY CALC CLAY Greyish brown (2.5 Y 5/2)	Smooth lutite with common forams Top 1 cm. of unit and at 317 cm. are dark	yellowieh brown (yellowieh brown what? micromodules?) (10 YR 4/6) in color	ં	337-406 CALC 002E	Ranges from 11ght brownish gray (10 YR 6/2) into yellowish brown (10 YR 5/4)	Smooth lutite with common forans Some slight intercalation present	·	CALC 002E	Graylsh brown (2.5 % 5/2) Scattered mottling	Smooth Jutite with common forams Some areas of Mn micromodule concentration present	ပ်		Î					1
Ship Keets Cruise Total Length 1001 c. Core condition Frank-Physiographic location	Lithologic		Ы .	14	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		94 4 4 4	1 10	ا ا ا ا ا ا	1 1 1	1 1 1	1 1	4	1 1 1 mm	 - 	 4 1	1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1	1	1 1 1 0	1 1 1 1	4 4 4 1	0 +	3
				fceous	sediolosia Sponoes	2	-														-	_			
		E)		eria) Siliceous	Diatoms	-																_			
		313	3	<u>Biogenous Mate</u>	Discoasters Privers		TR 2	_	2	-	-	-	-	1	_				_	-	_				
u			ESTIMATED ABUNDANCES (1)	<u>Blogenou</u> Calcareous	spoqo1939																				
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1				Increante Sitt &	Setritel greins Micronodules		-		•	A	2		7	2											
Ship:	Expedition 110	Leg No.		Inorganic	\$016TQ			_	CALC OOZE W/				CALC DOZE 2												

SMEAR SLIDE DESCRIPTIONS - M.H.O.I. SEDIMENT CORES

Poge 2 of 2

VISUAL CORE DESCRIPTION

Core No. 41PC

Leg 2 Sta. 28

Ship Knerr Cruise 110

Spoudes Biogenous Material
Calcareous sime forbes 5 2mode rQ Ĕ 2 H Ŧ ĸ 219410 1001 Discossters ESTIMATED ABUNDANCES (%) Pteropods Total Core Length Core No. 41 PC न S 25 S 20 a \$ 3 Station No. 28 £3 35 8 27 27 21122070nnsM 2M6103 9 46 2 62 77 67 2 \$ 70 2 7, 3 89 CITA Volcanic Shards Inorganic Material Silt & Sand sealtoez Micronodules ≅ ~ Ħ E Ĕ ¥ fathrta0 grisng CALC OOZE OOZE CALC CALC FENT. OZE OZE OZE

Ship: KNI Expedition Leg No. Leg	O SEDIME TYPE	40 CALC 002 95 CALC 002 150 CALC 002 208 CLAY	270 CALC 007 321 CLAY 365 CALC 007 605 CALC 007		8.30 CALC 00
Detailed Description	HIGHLY CALC CLAY Varies in color from pale brown (10 YR 6/3) to yellowish brown (10 YR 5/4) to grayish brown (10 YR 5/2) Faint morthing Smooth luttle with common forans Some intercalation, along with areas of Mn micromodule concentration in lower 15 cm. of ection.	723-774 CALC COZE CALC COZE Graylah brown (10 YR 5/2) Scattered mottling Smooth lutite with common forame G. 774-808	Fain brown (10 YR 6/3) Faint mottling Smooth lutite with common forans Some Mn micronodules in bottom 5 cm. of section G.	CALC OOZE Brown (10 YR 5/3) Scattered mottling Smooth lutite with common forans Some Mn micronodules in top 2 cm. of section 5, A (Arcuste) FLOH-IM	END OF CORE
Lithologic Log			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	\$ ************************************

Ship: KNR Expedition 110 Leg No. 2	SEDIMENT LEVEL TYPE	5 CALC 00ZE 12 CALC 00ZE HIGHLY CALC CL	22 /MICRONODULES 41GHLY CALC CL 29 / MICRONODULES 42 CALC OOZE			
Ship KNK Cruise 110 Leg 2 Sto. 28 Core No. 41 PG Total Length 91 cm. Lat 4 44.00 N Long 42 47.10 W Depth 2815 m carr. Core condition EXCRIENT Date Described 20 mM 120y P. MILLE Physiographic location CEARA RISE Lithologic Log	CALC COZZ 10 TR 3/2 grayish brown grading to 10 TR 6/3 pale brown grading to 10 TR 5/4 yallowish brown Faint metting with intercalation 117.27 CALC COZZ 10 TR 3/2 grayish brown grading to 10 TR 6/3 pale 10 TR 3/2 grayish brown grading to 10 TR 6/3 pale 10 TR 3/2 grayish brown grading to 10 TR 6/3 pale 11 Tr 27	MIGHLY CALC CLAY/MIGHOMOULES 10 TR 5/4 yellowish brown Slightly slity lutte with common forass SEGNO Unit contains many 10 TR 4/2 and 10 YR 3/2 dark grayish brown leminations 8.	10 TR 5/3 brown but 10 TR 5/6 yellowish brown near contacts Slity leafinations at 27, 29 and 30 cm.	32-49 CALC COZE 2.5 Y 5/3 elive grayish brown Pew 2.5 Y 4/2 mottles Smooth moist lutite with common forans 49-91 Repenetration	Mote: Stratigraphy is intact below 50 cm.	

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Volcanic shards

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Detrital grains

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Calcareous Material Siliceous

Inorganic Material

ESTIMATED ABUNDANCES (X)

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Total Core Length __

Core No. 41 PC Station No. 28

SHEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDINENT CORES

VISUAL CORE DESCRIPTION

Ship KNR cruise 110	400 In Indicate	[┥] ╎┥ _┪ ┥	500	16-70L	4 + + + + + + + + + + + + + + + + + + +	70 - 4	1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0
SCRIPTION Page 1 01 3 Leg 2 Sta 29 Core No 43 PC Lot 4 43.33 4 Long 42: 52.06 4/ Depth 3 42 4600	Rice Description	CALC GOZE 10YR 6/4 light yellowish brown scattered mottling smooth lutite with abundant forsms G	HIGHLY CALC CLAY 10YR 5/4 yellowish brown scattered to common mottling smooth lutite with common forame intercalated intervals in unit, such as 31-32, 38-43, and 65-66 cm. 5, hotisontal	AIGHLY CALC CLAY 2.57 5/2 grayish brown to 2.57 5/4 light olive brown common mottling smooth lutite with common forans light 4/6 dark yellowish brown "stained" gress from common and the pellowish p	80 E43		MICHLY CALC CLAY HIGHLY GALC CLAY 10YR \$/3 brown to 2.5Y 6/4 light yellowish brown alternating areas of common mottling and faint mottling smooth lutite with common forams, decreasing to scattered forams below 580 cm. 10YR 4/6 dark yellowish brown from 478-480 cm. and bottomost 2 cm. in unit
Ship Knowe Cruise (10 Le Total Longith //55 cm Lot felt	Physiographic location Barra Lithologic	4.1	0 + 0	1 + + + + + + + + + + + + + + + + + + +	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		0 + 0 + 0 + 0 + 1 + 1 + 1 + 1 + 1 + 1 +

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10YR 5/3 brown with variations throughout section; 10YR 5/4 yellowish brown from 794-805 cm. ecattered mottling
smooth lutite with common forams
10YR 4/6 dark yellowish brown from 988-989, 992993, 1000-1002, 1061-1062 cm.
Mn macromodule concentrations from 1061-1066, and
1074-1075 cm. common mottling smooth lutite with common forams many 10YR 4/6 dark yellowish brown areas throughout the interval, all under 2 cm. in length An micronodule concentrations from 667-673, and yellowish brown to base of unit faint to scattered mottling throughout smooth lutite with abundant forans to 674 cm., then common to base of unit again from 680-685 cm. 10YR 4/6 dark yellowish brown semi-indurated debris at 678-680, 692-693, and 701faint to meattered mottling smooth lutite with common forams 10TR 4/6 dark yellowish brown from 602-604cm. CALC 002E 107R 6/3 pale brown to 674 cm.,then 10YR 5/6 CALC GOZE INTO MIGHLY CALC CLAY 10YR 6/3 pale brown Detailed Description 704 cm S. horizontal HIGHLY CALC CLAY HIGHLY CALC CLAY 10YR 5/3 brown S. horizontal 919-1075 593-630 630-704 704-919 +0+ 4 ٥ 10 1 1 4 4 <u>د</u>ه 4 0 0 4 ξ

Poge 2 of

VISUAL CORE DESCRIPTION

_ Core No 43PC

Leg 2 Sto 22

SHEAR SLIDE DESCRIPTIONS - M.H.O.I. SEDIMENT CORES	
Page 3 of 3	110. 29 Core No. 43PC.
VISUAL CORE DESCRIPTION	Ship KNR Cruise 110 Leg & S

Station No. 29 Total Core Length 1155 cm	TIMATED ABUN	Sit & Sand Calcareous Siliceous	Detrital Micronodules Zeolites Aolcanic Shards Clay Peropods Ofscoasters Ofscoasters Ofscoasters Prepara	Tr 15	Tr 2 80 2 8	Tr 1 80 2 9 8	Tr 1 73 6 8 12	Tr Tr 63 2 10 5	Tr Tr 72 4 12 10	Tr 1 71 6 10 12	Tr 1 70 8 9 12	Tr Tr 76 5 9 10	Tr 1 73 7 9 10	Tr 1 68 8 9 14	Tr 1 77 4 10 8	Tr 1 74 6 9 10	Tr 2 66 8 9 15	Tr 1 77 4 10 K	Tr 1 2 3 9 15	Tr 1. 83 2 9 5		
Ship: Knorr Expedition 110 Leg No. 2			LEVEL SEDIMENT TYPE	12 cm calc ooze	45 clay	:	:	:	:	:	:	: : :		calc ooze	highly calc	: :	calc ooze					-
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Detailed Description	1075-1155 HIGHLY CALC CLAY	5.3 3/2 grayism brown 6.21f fred to common sottling 61iff letite with common foress	void at 1147-1149 cm. END OF CORE	1										ı								
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Poge / of	Long (1-716') Depth Bescribed - Light by	Description	1AY brown tling with shundant forest	core accidentally frozen before splitting	HIGHLY CALC CLAY 10VR 5/4 yellowish brown feath mottling, if any smooth luttle with common forase starty intercalated throughout interval 33-36 cm. 33-36 cm.	G HICHLY CALC CLAY 2.5Y 5/2 grayish brown faint to ecattered mottling	smooth lutite with common lorans. END OF CORE					
VISUAL CORE DESCRIPTION	110 Leg	Detoiled	HIGHLY CALC CLAY 10YR 6/3 pale brown ecettered mottling	core accident 6	HIGHLY CALC CLAY 107R 5/4 yellowish brown feath mottling, if any smooth lutite with commo fairly intercalated thro- 107R 4/6 dark yellowish 33-36 cm.	G 36-80 HICHLY CALC CLAY 2.5Y 5/2 grayish faint to ecatter	ZND OF CORE					
VISUAL C	Ship Kaner Cruise IID Total Length 60 cm. I Core condition excellent Physiographic location Prome	1 to 1		104	مام مع		1111111	···· [·····	ساست	دانينيا،	*************	*******

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Ship:	Expedition 110	Leg No.				LEVEL	10 c	26	55														
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SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship: Knorr Core i Expedition 110 Stati	SEDIMENT SEDIME	hly calc 2 Ir	260 " " Tr Tr Tr 8 355 " " " Tr Tr Tr 8		-
. 577	MICHLY CALC CLAY 10TR 5/4 yellowish brown feats mottling emotth lutte with abundant forems G, horizontal G, horizontal A-10 MICHLY CALC CLAY 10TR 6/4 11ght yellowish brown ecettered mottling throughout emoth lutite with abundant forems	10-43 NICHLY CLAC CLAY 107R 5/6 yellowish brown 107R 4/4 dark yellowish brown common mottling 6 INTRACTABLE layers from 16-43 cm. smooth lutter with common forms a intercalated 107R 4/4 dark yellowish brown region 5, horizontal	CALC CLAY 10TR 5/4 yellowish brown 10TR 5/4 yellowish brown 10TR 5/3 brown motifing common throughout section 10TR 5/3 brown motifing common to 10TR 5/3 brown motified from common to 10TR 5/3 brown motified account the second to 10TR 5/3 brown motified account the second to 10TR 5/4 yellowish the second throughout. 10TR 5/4 yellowish throughout. 10TR 5/4 yellowish throughout. 10TR 5/4 yellowish throughout.	292-359 CALC CLAY 10TR 6/4 light yellowish brown 10TR 5/3 brown mottling scattered throughout semooth lutite with forase common throughout 7.5TR 5/8 strong brown region from 334-339 cm. in- cluding a thin (40.5 cm.) semi-indurated area at 335 cm.	
Ship face Cruls Total Langth \$59 Core condition Edicine Physiographic location Lithologic			87		••••

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Biogenous Material
Calcareous Siliceous

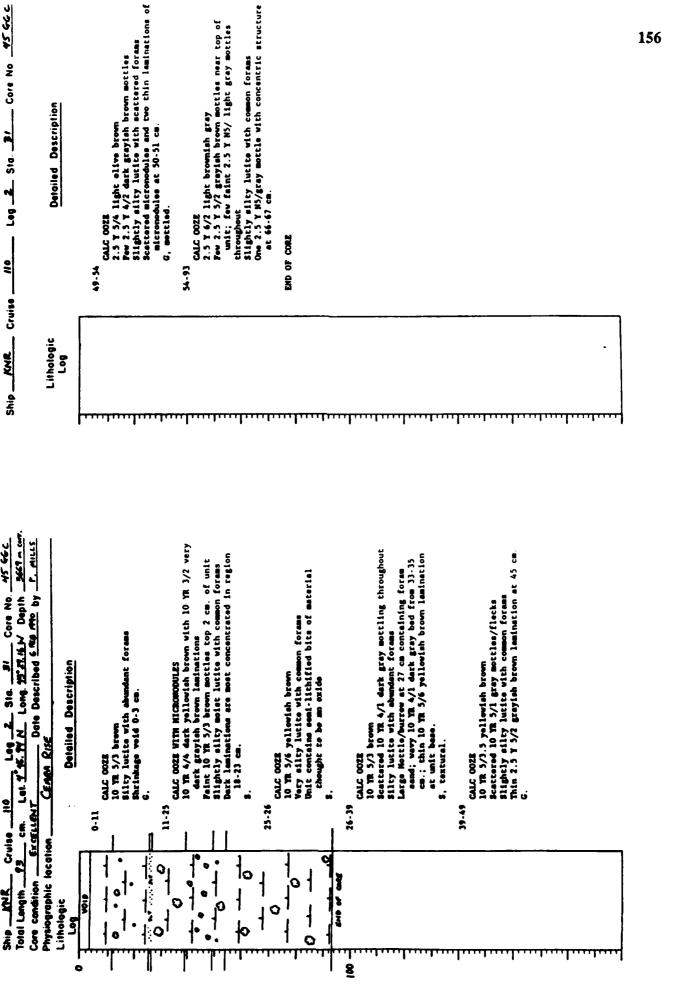
ESTIMATED ABUNDANCES (X)

Total Core Length __

Core No. 44GGC Station No. 30

SMEAR SLIDE DESCRIPTIONS - W.H.O.1. SEDIMENT CORES

VISUAL CORE DESCRIPTION



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Core No

Log 2 Sto. 31

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Cruise

Ship KNR

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Page 1 of 2

VISUAL CORE DESCRIPTION

Cruise 110

Ship KNR

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VISUAL CORE DESCRIPTION Page / of 3	Cruise 110 Leg Z Sia 31 Core No 46 PC. 1114 cm. Lat 196 186 Long 13-22 12 W Depin 36 812. Estrellent Date Described 4/2012 by 244/5	Detailed Description		HIGHLY CALC CLAY	10fR 5/3 brown scattered mottling	emooth lutite with common forems interval is basically intercalated throughout. from 8-11 cm is 10YR 5/4 yellowish brown G II-297 HIGHLY CALC CLAY 2.5Y 4/4 olive brown	common mottling smooth lutite with common forans	numerous just 4/0 dask yellouish brown 'stained areas throughout interval, such as 103-106, 155-157, and 200-203	9	297-467 HIGHLY CALC CLAY	10YR 5/3 brown	smooth lucite with acattered to common forans 10YR 4/6 dark vellowish brown areas from 354-363.		brown color	467-575	1078 6/3 male hrome to \$36 cm. then 1078 5/4	yellouish brown	smooth lutile with forame increasing from scattered		Scattered areas of intercelations and concentrations	S. Arcuste	\$75-842	2.57 \$5 graphs brown to 57 5/3 olive	amouth justice with acattered forams IOVE 6/6 date willouth brown debris areas at	737-738, 768, and a few other thin layers
VISUAL	Ship Kharc Cruise Total Length 11/14 cn Core condition 2/12/16/18 Physiographic location	Lithologic	70-7		9 	8 1 1 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1	4	1 4 0		- 0 -	- -		1 -	104	1 0	+	မေ	27 - 0 - 02	1		1 -	1 4	4	1 1 1
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DE DESCRIPTIONS - N.H.O.I. SEDI	Constant	Station No.	TOTAL MILE	ESTIMATED AND	Silt & Sand	Zeolites Volcanic Shards Valo Cag	25	35																	
SHEAR SLIDE DESCRIPTIONS - N.H.O.I. SEDIMENT CORES	ICAR	Expedition 110 Station No.		ESTIMATED AND	Silt & Sand	Micronodules Zeolites Volcanic shards Stary	1 4 25	15 35	12	3	3	,	2	2											

Ship Kaper Cruise 110 Leg & Sia 3/ Core No 46PC	400 Logic Detailed Description	4444	11thifided "chunks" at 994 cm.	1 1 1 1 0 1	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	400 to	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	7 7 7 7 008
Ship KABIT Cruise 110 Leg 2 Sto. 31 Core No. 46 PC	Lithologic Detailed Description Log						ما م ده	
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VISUAL CORE DESCRIPTION	cm. Lat. 1'46.	CEARA RISE	Deterined Description	0.30	CALC COZE 10 YR 5/2 gravish brown grading to 10 YK 6/3 pale	Beattered mottling with intercalation	Silty lutite with abundant forame grading to	Shrinkage void 0.4 cm. 6. 20-34	GALC 00ZE 10 YR 5/9 yellowish brown changing to 10 YR 5/3 brown at 27 cm	\$ 5 		34-38 CALC CLAY	10 VR 5/4 yellowish brown Slightly elity lutite with common forens	10 TR 5/6 yellowish brown silty laminations at 34 and 36 cm.	.	38-61 CALC 002E	2.5 Y 5/3 light elive grayish brown Scattered 2.5 Y 4/2 dark grayish brown mottles	Slightly slity lutite with common forans 2.5 Y N3/ very dark gray lamination at 46 cm.; top	5 cm. of unit slightly more yellow	61-98 Second Penetration		ZND OF CORE.				
VISUAL C	Ship KNR C Total Length 20 Core condition	Physiographic location Lithologic	C Log		10	† † †	1				SECOND	PENETRATION	••••	->	Bornen or Cape	\$	••••	****	7111	·1·	1	***		•••	·*••1	1
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SHEAR SLIDE DESCRIPTIONS - M.H.O.I. SEDIMENT CORES	Knorr	ition 110				<u> </u>	SEDIMENT	3444	highly calc	:	:	I I	:	:	:	calc ooze	1	highly calc		:	8200 2182	2	highly calc			
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SMEAR SLIDE DESCRIPTIONS - N.H.O.I. SEDIMENT CONES

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ition 110		SEDIMENT	CALC 00ZE	CALC 00ZE	CALC 002E	CALC CLAY	CALC 00ZE									
Expedition Leg No.		LEWEL	9	15	11	35	51									

throughout smooth lutite with foress common throughout top I cm indurated 107R 5/8 yellowish brown transition material; other yellowish brown areas ((0.5 cm) also scattered mottling of dark material found throughout smooth lutite with common forams; bottom 11 cm has to ecattered downsection 10VR 4/3 dark brown intercalated layers about 1 cm thick throughout interval distinct 10TR 6/3 pale brown zone from 334-335 cm. Few intercalated areas also found. Busal 3 cm 10YR 5/6 yellowish brown in color 5, horizontal throughout smooth lutite with forms decreasing from abundant smooth lutite with forans decreasing from abundant Lot 4 5/3 / Long 45/88 ' W Depth 5892 4 Page 1 of 2 10TR 6/4 11ght yellowish brown scattered mottling of overlying and underlying faint mottling of 10YR 4/3 dark brown material - Date Described Styles by APVIS CALC TO BIGHLY CALC CLAY 10YR 6/4 light yellowlah brown acterial scattered mottling of 10YR 5/3 brown material faint, dark mottling throughout emooth lutite with abundant forans G, borizontal Detailed Description HIGHLY CALC TO CALC CLAY 10YR 5/6 yellowish brown material throughout to comon downcore 10TR 6/3 pale brown RIGHLY CALC CLAY MIGHLY CALC CLAY NIGHLY CALC CLAY 10YR 5/3 brown G, horizontal G, horizontal S. horizontal fev forese VISUAL CORE DESCRIPTION Physiographic tocation Care Rice 293-347 43-293 14-43 Schise IID 4-14 I Core condition _exelles! D Ship Knorr Total Length 4 Lithologic 6 7007 100 300

1949 1949		33	th 357 cm	DANCES (X)	Biogenous Material Calcareous Siliceous	s	Mennofossi Discoasters Others Discoms Madiolaria	01 61	12 Tr 4	13 2	11 2	13	12	13	12	9	7								
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Datelled Description Epped 197-337 BIGHTY CALC CLAY INTROP CALC CLAY INTROP OF COME END OF COME END OF COME END OF COME END OF COME		ı			=		[831-7590	~	-	2	-	11	Ir	Į.	Tr	#	_								
Description Especial Communication (Especial Communication	[tion 110				SEDINENT	TYPE	highly calc		=	calc clay	highly calc	:	highly calc	:	calc clay	highly calc								
347-357 BIGHLY CALC CLAY INTO 6/3 pale brow common mottling of smooth lutite with END OF CORE		Expedi	Leg K				ונאנו			33	110			ě	320	345	150								

SHEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Page 2 of 2

Leg 2 Sto. 33

Ship Knorr Cruise 110

VISUAL CORE DESCRIPTION

Core No. 48CCC

Poge 2 01 3-_ Core No 492 C Leg 2_ Sio. 33 VISUAL CORE DESCRIPTION Ship Knorr Cruise IID

VISUAL CORE DESCRIPTION

Core No 412C

Leg 2 Sto. 22

Course LID

Ship Kherr

10VR 7/2 light gray with 10VR 6/4 light yellowish brown from 694-705 cm. and 10VR 5/4 yellowish brown from 761 to base of interval An micronodule concentrations at 656-660, 761-766, faint to scattered mottling, except from 612-620, 700-761 which is acattered to commonly mottled smooth lutite with common to abundant forams Detailed Description HIGHLY CALC CLAY

fairly heavily cracked throughout interval from 794-809, 909-924 cm., mediment is slightly lighter in color with comon forans smooth lutite with scattered forans comonly mottled 10YR 5/3 brown CALC CLAY

abundant forame to 944 cm., then scattered to 960 cm. numerous layers of Mn micronodules from 947 to 10YR 6/4 light yellowish brown to 947 cm., then 10YR 5/4 yellowish brown scattered mottling HIGHLY CALC CLAY smooth lutite

fairly heavily cracked throughout interval scattered mottling firm lutite with few, if any, forams base of unit 10YR 5/3 brown S, horizontel CALC CLAY

END OF CORE ...

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Poge 3 of 3

Log 2 Sto. 33

Ship Khorr Cruise 110

VISUAL CORE DESCRIPTION

Detailed Description

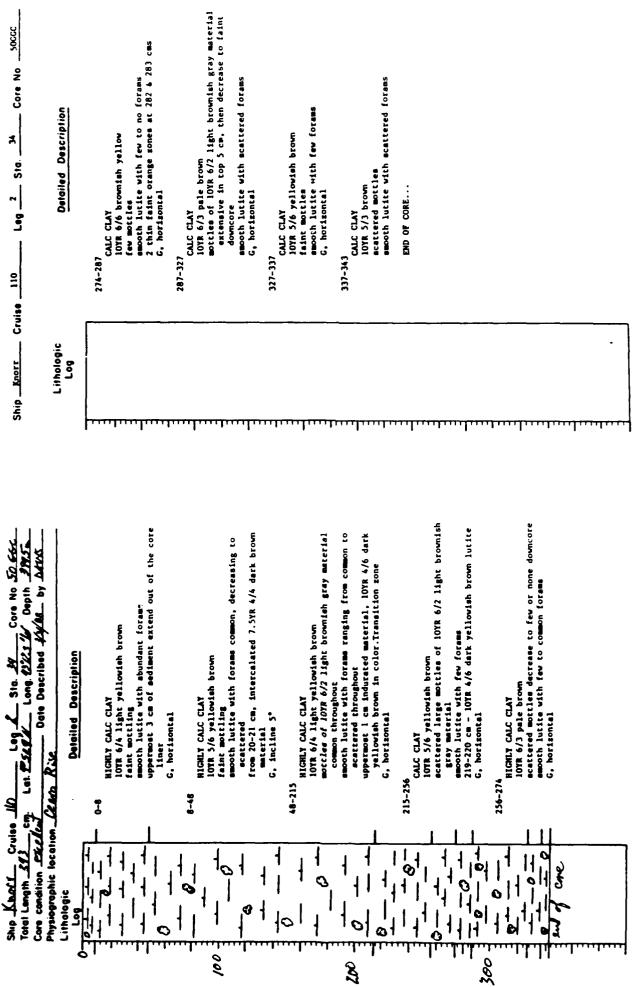
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Ship: Knorr	Itfon 110	7			SEDIMENT	TYPE		highly calc clay					:	calc clay	=	highly calc clay	:	:	calc clay	highly calc	calc clay			
Shtp:	Expedition	Leg No.				רבאנר		50 cm	120	160	230	320	380	450	540	620	700	760	815	946	980			
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SHEAR SLIDE DESCRIPTIONS - W.H.O.1. SEDIMENT CORES	Knorr Core No. 49 PG	Expedition 110 Station No. 33	Leg No. 2 Cm Total Core Length 93 Cm	ESTIMATED ABUNDANCES (%)	Inorganic Material Biogenous Material Silt & Sand Calcareous Siliceous		enia- lubarara seras seras	rites ronora	MI COST	cm calc coze Tr 1 64 8 9 18 Tr	highly calc Tr 2 79 3 10 6	" " " Tr 1 78 3 10 8	calc coze Tr 1 60 8 11 20 Tr												-
	Shtp.	Exp	le.				LEVEL				32	\$	88			1									
RIPTION Poge Lot	Let 4'50'0'A Long 45 130'W Depth 3808 m. Let 4'50'0'A Long 45 130'W Depth 3808 m. Director Described 44478 by 18415				CALC GOZE 1078 5/3 brown into 107R 5/6 yellowish brown faint mortling	luttre with abundant forams multiple penetration?	9	MIGHLY CALC CLAY	1sh brown	scattered to common mottling smooth lutite with common forens	interval has areas of heavy intercalation, such as from 27-30, 33-35, 37-38, and 44-46 cm.	ı	HIGHLY CALC CLAY	IOTE 3/3 brown common mottling	from 49-51 cm. 1s 10YR 4/6 dark yellowish brown	ice-rafted debrie, bounded by two distinct semi- indurated very thin (40.25 cm.) layers	S, horizontel	CALC 002E	107R 5/3 brown faint mottling	lutite with abundant foreme repeat of uppermost unit?	END OF CORE				
VISUAL CORE DESCRIPTION	7 18	gic	109	# T	4-0-4-0	0	0-	97-81	the the				98-94				***	86-93				 	 	***	



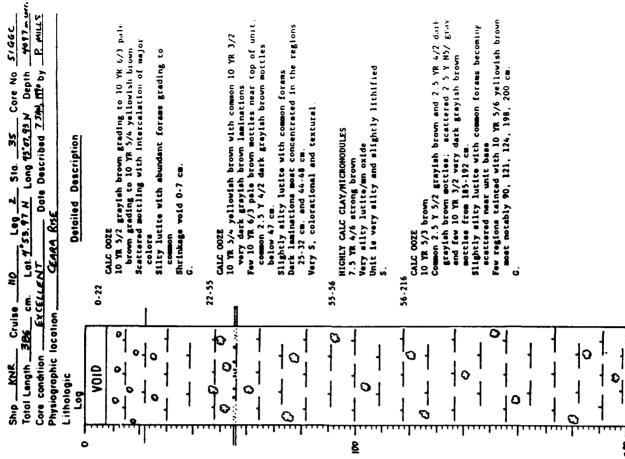
Page 2 of 2

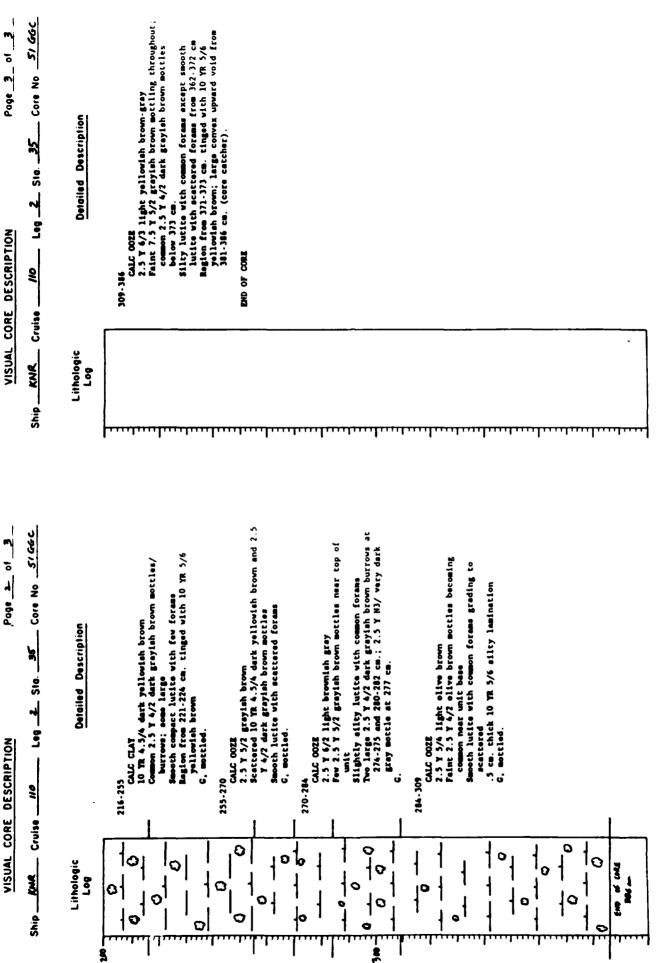
VISUAL CORE DESCRIPTION

SMEAR SLIDE DESCRIPTIONS - M.H.O.I. SEDIMENT CORES

Page 1 of 3

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	ı			Joul	Su	[6317390 Parp	7.	77	Tr	1	77	Tr	Tr	1.	1	1r								
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	Expedition	Leg Mo.			ğ		\$ 5		90	160	240		280	310	330	340								





Expedit	Expedition 110	1.			Stal Tota	Station No.	ا م ف	۲ <u>چ</u>		, ¥		5		
					153	ESTIMATED ABUNDANCES	3	NDWC	13	8				
		Ę	Inorganic		17	П		3	Blogenous	[w	Material	-		
			ĔĹ	Pues				š	Calcareous	- 1			3	2
LEVEL	SEDIMENT	fathtso entarg	es (npouous) H	satitoaz	Yolcanic Shards	CISY	204101	z [ł z zo ł onns M	Pteropods	Discoasters	219430	D1 & Coms	SinsforbsR	Sponges
9	CALC-SILIC 002E	Ę	5			•	35	8			2	2		J.
	CALC OOZE	-	9			30	25	35			٦			¥
07	CALC 00ZE	2	9			0,4	\$	13		Ĕ	-			
55	NIGHLY CALC CL	^	35			æ	•	22			2			
110	CALC GOZE		5			50	10	33			-			
190	CALC 00ZE	3	9			35	20	33			-			
250	CALC CLAY	9				90	T.	8			2			
265	CALC 002E	12	5			40	9	36			-		_ 1	
111	CALC 00ZE	2	3			4.5	\$1	34			1			
298	CALC 00ZE	10	4			55	3	28			Ĕ			
345	200 CALC	2	0-03			4.5	15	36			-			
380	CALC 00ZE	01	3			9	12	23			2		_	
									_		_			

Cruise W Leg & Sie. ES Core No. 54.PC. Welled Described Aller Dy Mills Location Cert Rice Delailed Description Delailed Description O-6 HIGHLY CALC CLAY 10YR 5/4 yellowish brown mettling smooth luttee with common forance pottom content not visible-mediaent cracked. Lithititle of the O-5 car. thick 1, horizontal	6-258 HIGHLY CALC CLAY WITH SLIGHTLY CALC CLAY IOYR 6/4 light yellowish brown IOYR 5/3 brown mottling common to scattered throughout smooth lutite with common forans at 75 & 208 cm, semi-lithified 7.5YR 5/6 strong brown material 0.5 cm, thick G, hotizontal	258-329 HIGHLY CALC CLAY 1078 6/4 light yellowish brown darkening to 107R 5/4 1078 6/4 light yellowish brown dection scattered mottling of 107R 3/3 dark brown moterial smooth lutite with common forams throughout slight increase in orange tint at 324 cm. to base of unit. Base is a semi-lithified, 0.5 cm thick area of 7.5YR 5/6 strong brown material S, horizontal	329-442 CALC CLAY TO HIGHLY CALC CLAY IONR 6/4 light yellowish brown extensively mottled in uppper 10 cm. of unit with 10YR 5/3 brown material. Remainder of unit is faintly mottled. manoth lutite with common forans throughout bottom 2.5 cm 7.5YR 5/6 strong brown in color; contains thin discontinuous laminations 6 small (c.25 cm in diameter) pieces of indurated material G, horisontal	442-507 MIGHLY CALC CLAY MORE 6/4 light yellowish brown upper 10 cm extensively mottled with 10YR 5/3 brown material; mottling decreases from faint to none by 470 cm. smooth lutite with common forams, becoming a slightly silty lutite with abundant forams 6 pteropods about 473 cm. 5, horizontal
Ship Merre Cruise Total Length 1/21 cm. Core condition Medical Physiographic location C. Lithologic Log	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	4 1 1 1 1 1	1 1 1 1
6	<u>8</u>	82	\$ \$	\$

Ship KADOLL Cruise 110 Leg 2 Sto 35 Core No 52PC	BOD Log NICHLY CALC CLAY 10TR 6/3 pale brown acattered mottling of 10TR 5/1 gray material, manally in upper portion of section. Lutter with abundant forms		4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	100 to to to to to to to to to to to to to	1
Ship KANE Cruise 110 Leg & Sto. 25 Core No. 52 PC	Lithologic Log S07-560 HIGHLY CALC CLAY 10TR 5/6 yellowish brown grading to 10TR 5/4 yellowish brown grading to 10TR 5/4 feath mottling, if any	solution and the section state of the section state of the section state of the section state of the section state of the section state of the section state of the section state of the section state of the section	MIGHLY CALC CLAY MIGHLY CALC CLAY MIGHLY CALC CLAY MIGHLY CALC CLAY MIGHLY CALC CLAY Faint mottling smooth lutits with peatered forms very gradual upper and lower contacts c gradual upper and lower contacts C gradual upper and lower cont	LAY ng in lower half of section ag in lower half of section with few to scattered forams in from 962-977 cm; extreme mottling? and foundish brown 955-956 cm. Pod of 48-949 cm.	

SHEAR SLIDE DESCRIPTIONS - W.H.O.T. SEDINENT CORES

Page 1. 01 2.

	10 Leg & Sta. 15 Core No 52 PG. Lat. 252734 Long. 2754.65 1/2 Depth 4/58 m. Date Described 5/4/87 by PM/5	Detailed Description	1	CALC 002E 10 YR 6/4 light yellowish brown	faint mottling smooth lutite with abundant forams	G, horizontel	MICHLY CALC CLAY 10 YR 4/4 dark yellowish brown	smooth lutite with common forams intercelated? c horizontal (manhed by break in liner)	S. NOTIZONIAL (Mekso of Disert in Line)	15-36 BIGHLY CALC CLAY	10YR 5/4 yellowish brown common moteling throughout with 10YR 5/3 brown	material	S, horizontal	36-38 CALC GOZE WITH CLAY	10YR 6/4 light yellowish brown mottling faint	slightly silty lutite with extensive forms G. horizontal	69-86	_	scattered 10YR 3/3 dark brown mottles. 10YR 3/3 dark brown intercalated layers up to a total of	of 2 cms. thick from 54-69 cm. smooth lutite with forams common throughout	0.5 cm thick arcuste foram/pteropod rich layer at 50 cm.	S, horizontel	69-72 CALC DOZE WITH CLAY	10YR 5/2 graytah brown mishtly milty lutte with abundant forsm/	preropode premipteropod 11ch	S, horizontal		
	¬ €+1`	Lithologic		111111111111111111111111111111111111111				=0	50-					1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	11	1001		and of sare		, , , , , , , , , , , , , , , , , , , 					···		*****	
			5		terial Siliceous		e,.	atoms diolar	10 Rac	3	8	9		1	4	15	2	80	3	\$	3	10	12	7	12	8	9	
SCULPERI COMES	52PC	0. 35	e Length 1173	ESTIMATED ABUNDANCES (X)	Calcareous Mate		\$ [] \$	zotonn boqors tenos	10	1 25	2 15	10 12	╅	3 11	6	2 9	2 13	2 12	•	3 14	1 18	4 14	91 9	4 12		3 10	2 10	
	5 5 8	Station No.	Total Core Length	ESTIMATE	Ingreenic Meterial		SPJE	cronod of test of neof sh	HPZ	Tr 71	1 76	11 11	8	1r 78	2 62	1 20	2 76	2 75	2 84	2 2 2	1 75	1 70	199	2 13	1 12	1 91	2 80	
were selle teste	Knorr	110	1		Inorg	1000	suje.	fastris 18	eg	ly celc Tr			y cale	y calc	c clay 2	ly calc	2	1 " "	le clay 2	clay calc 2	2	2	1 1 1 1 1 1	highly calc Ir	:	n n Tr	" Tr	
	S a ja s	Expedition 110	Leg No				ונאנו			4 cm clay	. 09	. 091				605 clay	054	\$30	590 calc	680 clay	. 077	058				. 0501	0611	

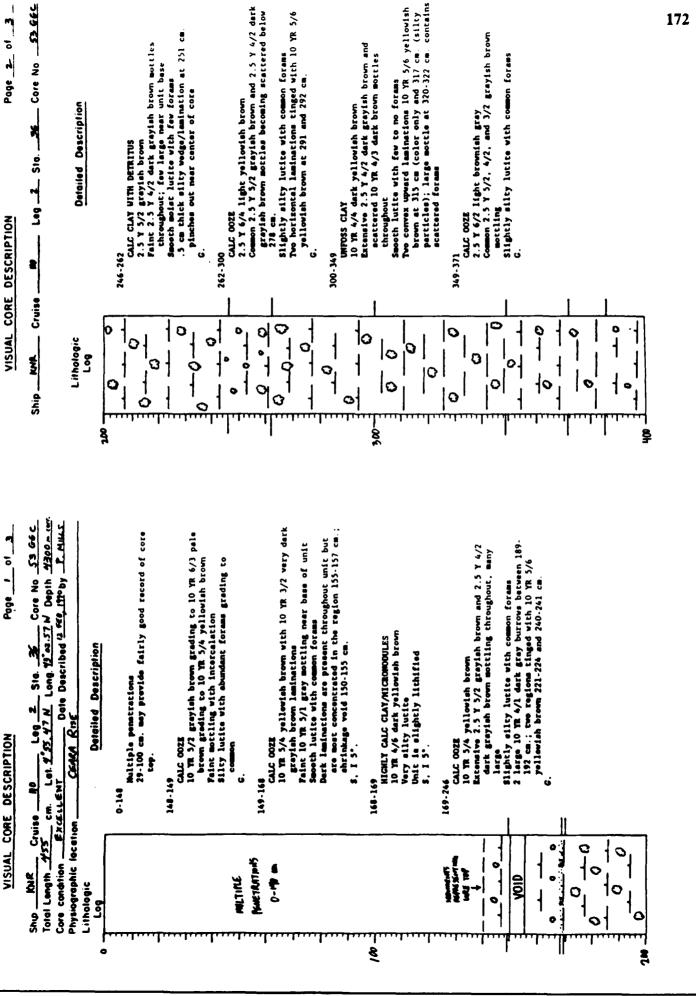
Core No. 52PC	Station No. 35	Total Core Length 115 cm	TIMATED ABUNDANCES (%) Blogenous Materia	Silt & Sand Calcareous Siliceous	13 13 142 142 142 142 142 142 142 142 142 142	rital reconductors	Fow had a second	1 2 58 8 16 Tr 15	Tr 2 76 1 18 3	Tr 1 80 2 13 4	Tr 1 3 2 74 5	2 69 2	65 2 22	7,						
Ship: Knorr	Expedition 110	Leg No.			SEDIMENT	TYPE		8 cm calc ooze		20 " " "		highly calc								-
	Detailed Description	73-94	HIGHLY CALC CLAY 10YR 5/6 yellowish brown accepted 10YR 3/3 dark brown intercelated layers	down to 02 cm.		6 93.5-94 cm. G. horizontal	94-115	10TR 5/4 yellouth brown	lutte with forms common	END OF CORE										
41444	Log																			

SHEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Leg 2 Sig. 35 Core No 52PG

VISUAL CORE DESCRIPTION

Ship Knorr Cruise 110



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				Biogenous Material	21943	2	-	_	J	<u> </u>			_		-	3								
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Core No.	Station No.	Total Core Length	ESTIMATED ABUNDANCES (S)	\bot	CIAY	~	\$\$	8	9	,,	2	93	S	2	\$	- \$				_			\Box	
3	S	٥		Inorganic Meterial Silt & Sand	Volcanic Shards						_						_							
				S Se	2931f093																			
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	ı			Ě	letrite) entarp	Ħ	9	,	7	न	10	4	~	•	7	-								
KNR	Expedition 110	02			SEDINENT	CALC 002E	CALC OOZE	HIGHLY CALC CL	CALC 00ZE	CALC CLAY W/	CALC DOZE	UN FOSS CLAY	CALC DOZE	UN FOSS CLAY	CALC OOZE	CALC 03ZE								-
Ship:	Exped	Leg No.			LEVEL	142	091	169	220	255	285	330	365	380	019	450								
		371-305	UNTOSS CLAY	Scattered 2.9 V 6/2 light brownleh gray mottles containing scattered forces above 376 cm.		 Faint 10 TR 6/3 pale brown mottling above 423 cm.; extensive 2.5 Y 5/2 grayish brown mottling below 	-	Jutite with few forame from 420-433 forame becoming abundant below 445	TO SEE THICK NOTIONAL LEMINATION TINGED WITH IN THE SEE SEE SEE SEE SEE SEE SEE SEE SEE S	EMD OF COME														
Lithologic						1																		

Sponges

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Page 3 of 3 _

Ship KNR Cruise RO Leg & Sto. 36 Core No. 53 G4C.

VISUAL CORE DESCRIPTION 496-598 643-688 688-895 Ship KATOR Cruise 11 4 + 2 - 1 3 4 4 % 100 to 2 72 670 Lithologic 1 101 S 4 40 1 1 400 ١٥ 7 1 Ē 3 90 Brown (10 TR 5/3)
Extensive very dark gray-brown mottling throughout
unit, especially 320-376 cm., 397-413 cm., 441-Date Described TISTS by Schat Jac Page 1 01 3 Baseth, firm lutite
These sections of the core have extensive
cracking, due to the fact the core was frozen.
One cracked section, 184-197 cs., exhibits
drastic color change and halite concentration. Fale brown (10 YR 6/3) Very, very faint very dark gray-brown mottles at 264 6 268 cm. Yellowish brown (10 YR 5/6) Unit changes gradually from yellowish brown to atrong brown (7.5 YR 5/8) 278-295 cm., then LOI 1 513 N LONG 1 2 4 COTO NO SHEET Smooth, moist lutite with few scattered forans. Extensive very dark gray-brown (10 TR 3/3) mottling throughout unit, sepecially at 113 148, and 238 to 248 cm. Silty lutite with common to abundant forams CRADING FROM CALC GOZE TO UNFOSS CLAY WITH Scattered Mn micromodules 303-314 cm Smooth lutite with scattered forans also probably due to freezing. returns to yellowish brown. Detailed Description DETRITUS TO CALC GOZE Brown (10 TR 5/3) Physiographic location CEARA R 15E CALC 002E CALC 002E 468 cm. CALC DOZE VISUAL CORE DESCRIPTION 258-278 278-320 320-496 0.258 Cruise 110 Total Length 215 cm. 1 2 1 2 1 C 3+3-1 9 ALLANANA . 4 4 4 J ってって ٥ D 3 4 Ship KNORR 0 0 0 1 6 ሌ D ø ø Û ٩ Lithologic 4 او ا ا 0 0 0 ٥ 10 ۵ ٥ 200 100 多

Brown (10 YR 5/3)
Pale brown (10 YR 6/3) laminetions at 495-503 cm., 526-532 cm., 579-592 cm., and 598 cm. Very Edint dark gray-brown mottles throughout unit: faint light olive brown (2.5 Y 5/4) streaks at grayish brown mottles; mottling increases 732.
760 cm. until unit is grayish brown. Pale brown (10 YR 6/3) lamination 805-819 cm.; yellowish brown (10 YR 5/6) lamination 835-843 cm.
8. I 10°. Light yellowish brown (10 YR 6/4)
Unit begins as pale brown (10 YR 6/3) with common cm., increasing dark graylsh brown (10 YR 4/2) mottling to extensive from 622-643 cm. Smooth, moist lutite with few forams Smooth, moist lutite increasing foram content to dark graylah brown mottling, then gradually turns to light yellowish brown 661-663 cm strong brown (7.5 YR 5/6) leminations 670-675 Vellowish brown (10 YR 5/4) Brownish yellow (10 YR 6/6) lamination 612-614 Grayish brown (10 YR 5/2) Unit begins as brown (10 YR 5/3) with common Smooth lutite; slightly silty with scattered UNFOSS CLAY TO SLIGHTLY CALC CLAY Detailed Description Few Mn micronodules at 581 cm. common 561-588 cm. forems 650-657 cm. 586, 584 cm. CALC 002E CALC OOZE CALC 00ZE

Core No S4PC Poge 2 of

Leg 2 Sto. 37

Ship KNORR Cruise 110 Leg 2 Sta. 33 Core No. 54 PC Poge J of 3 VISUAL CORE DESCRIPTION

Lithologic Log

Detoiled Description

095-915
CALC COZE
Light elive brown (2.5 % 5/4)
Smooth lutite with scattered forame
Few Nm micronodules throughout unit

END OF CORE.

Sall . fit

Core No. 54 PC	Station No. 37	Total Core Length 915 cm
Ship: KHR	Expedition 110	Leg No.

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

					2	ESTIMATED ABUNDANCES (X)	94 0	MDAN	CES (3				
		Ino	rean	C Mat	Meterial			B	Blogenous		Material	14		
			Silt 6	& Sand	٥			3	Calcareous	. 1	П	SE	Siliceous	2
LEVEL	SEDIPENT TYPE	Detrita) snisvp	Mi cronodul es	Sea) foe5	Volcanic sbranks	CITÀ	201101	2 i i 220 i onnaM	Pteropods	Discoasters	219430	2mo3&10	ginsloibsЯ	Sponges
20	3200 CALC	-	1			32	9	09			TR			
671	UNFOSS CLAY W/DETRITUS	15	7			2	T,	¥						
249	CALC 00ZE	3	-			5.1	5	40						
266	CALC 00ZE	1	TR			æ	50	61						
285	CALC 00ZE	TR	1			50	,	42						
262	CALC OOZE	2	E			· ;	\$	8						
304	CALC 00ZE	3	1			6.3	3	50	TR		Ĭ.			
347	CALC 00ZE	2	2			0,	•	53						
377	CALC 00ZE	2	-			25	2	0,4						
200	CALC 002E	۴	-			3	2	57						
581	CALC 00ZE	2	~			3	2	Š						
586	CALC 002E	0				20	45	32			Ĕ			
590	CALC 00ZE	1				75	•	3						
909	UNFOSS CLAY	8	3			87		¥						
613	SLIGHTLY CALC	\$	\$			8/	T.)	T.R					
634	SLIGHTLY CALC	01	-			8		-			¥			
653	CALC 002E	-				34	15	50						_ [
663	2200 CALC	_	1			9	-	57						

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COMES
SEDIMENT
- W.H.O.I.
DESCRIPTIONS
SEAR SLIDE

CORE DESCRIPTION	Cruise 110 Leg 2 Sto 37 Core No Sufer Com Con Lat 153 to No Long 12512 1 Depth 1451	2613		0.24	Light pallough brown (10 % 6/4)	7.3	Very faint dark brown streaks throughout unit; dark yellowish brown (10 YR 4/6) lamination at	35.38 cm. Smooth, very moist lutite with common forams;	S. N. S. N. S. N. S.	30.56	Grayfath brown (10 YR 5/2)	Smooth, very moist lutite		Earl of cont.											
VISUAL C	Ship WADER C. Total Length St. Core condition	Lithologic	- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	- - - - - - - - - - - - - 	100	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	Т	••••		·II·	····					- 	 -	····	···		 	 	····l	·····	-
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			5		Stliceous	Smo3 & Y	+										\neg								
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S	l		915	55	Blosenous	spodoras					Ĕ	Ĕ						\dashv						ヿ	
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KOIM	- 1	إ	5	3		200101	E	13	2	2	Ħ	~												\neg	
). I. S	į	Station No	Total Core Length	ESTIMATED ABUNDANCES (X)	\top	CJ	22	*	3	8	\$9	- 1												ヿ	
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terte					3	H cronodul es	 	-	1	-	7	E							\dashv					\dashv	
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K 106		ı	1		Ц																				
SHEAR SLICE DESCRIPTIONS - N.H.O.I. SEDIMENT CORES	DIR	Expedition 110	7			SEDIMENT TYPE	CALC 002E	CALC 00ZE	CALC 002E	CALC 002E	BIGHLT CALC	CALC 002E													
	SP C	Exped				ונאנו	672	112	750	810	838	006													

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CORES
SEDIMENT
N.H.0.1.
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DESCRIPTIONS
SLIDE
SEAR

10 Lot 25.52 1/2 Long 22.53.54 Depth	13	Detailed Description		CALC 002E	faint mottling throughout with 10YR 3/3 dark brown material	6, horizontal C. horizontal 25-40 CALC OOZE 10YR 5/8 yellowish brown into 10YR 3/4 dark brown at 33 cm. few large mottles at top with 10YR 5/3 brown	material; near base smaller mottles of 10YR 5/3 brown are common	smooth lutite with forms common to few near base S, incline 10*	69-09	10VR 5/8 yellowish brown with some 10VR 3/4 dark	few mottles; top 2 cms. intercalated (?)	emboth Julice with acattered foress S, borizontal	49-178	HIGHLY CALC CLAY top 1 cm is 7.57% 4/4 dark brown; remainder is	attensive, large scale mottles of 2.5Y 4/2 dark	grayion prown top I cm. semi-lithified zone; remainder is smooth	intite with rev forms and of glacial period?	S. northonial	178-186 CALC CLAY	2.37 4/4 olive brown smooth lutite with few forams	5. norigontal			
Ship Kacre Cruise Total Length 322, cm.	Core condition Esculent Physiographic tocation Chara	Lithologic	100	4	44		2	101	8-1-8	11		<u> </u>	1 6	101		1 62 T] 	2 + + 6) \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	16	1-0-1	
					ous.	Sponges							8						951					
			5		Material Siliceous	sinstems sinstems	┢	Ę	17	Ĕ														
	22 ×	77	th 5.6	DANCES (X)	<u>Blogenous Mater</u> Calcareous	Rennofossils Pteropods Pressessing	_	20	3	21	30 TR													
	Core No.	Station No.	Total Core Length	ESTIMATED ABUNDANCES (X)		Vef2 Forest	2 %	8	7 00	79 1	65 2													
	3	Stat	Tote	EST	Sand	Zeo) i tes Volcanic Shards	╁														_			
					Ingragate	Hi cronodules	-	25	•	-	-												\dashv	
		j	•		Ino	fastased antang	~	\$	1	^	2													
	RUR	Expedition 110	ا م			SEDINENT TYPE	CALC 002E	HIGHLY CALC C	CALC 002E	כושכ כושג	CALC 002E													
	Shtp:	Euper E	Leg No.			ונאנו	15	7.7	R	ñ	47													

DESCRIPTION Page 3	Cruise 110 Leg 2 Sta. 37 Core No SSGC	Detailed Description	126-309 MIGHLY CALC CLAY WITH DETRITUS 5Y 5/3 olive motiling common to extensive throughout with 2.3Y 4/4 olive brown material smooth luttie with abundant foream from 226-246, smooth luttie with abundant foream foream foream seatient from 237-29g cm.; other, thin (4/cm.) dark yellowish brown bands at 263, 294 cm. 5, inclined 10° 309-319 CALC CLAY 2.3Y 5/4 light olive brown motiling with 2.3Y 4/4 olive brown material seatiered to 314 cm, then none smooth luttee with common forams reducing to few at 217 cm. G, horizontal 319-32 Silchty CALC CLAY mainly 2.5Y 5/6 light olive brown, but gets alightly darker down core motiling of loff 3/4 dark yellowish brown common throughout smooth luttee END OF CORE
VISUAL	Ship Kagir C	Lithologic Log	-
DESCRIPTION	Cruise MV Leg 6 Sto. 27 Core No. 33 90 E	Dateiled Description	196-195 10011 CALC CLAY 2. M. 4. A latve brown 2. See small-scale mottling of dark gray material 3. See small-scale mottling of dark gray material 3. See small-scale mottling of dark gray material 4. See small butte with common forame 5. Norizontal 1. 195-201 1. 195-201 1. 195-201 1. 195-201 1. 195-201 1. 195-201 1. 195-201 1. 195-201 1. 195-201 1. 195-201 1. 195-201 1. 195-201 1. 195-201 1. 195-201 1. 195-201 1. 195-201 2. 195-
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VISUAL CORE DESCRIPTION		KISE	Detailed Description	0-4 MICHIN CALC CLAY	Brown (10 YR 5/3) Sacoth, soupy lutite	4-242 CALC CLAY TO UNFOSS CLAY Light yellowish brown (10 YR 6/4) Extensive graylsh-brown (10 YR 6/7) Laght fractions refreshell unit fune for	graph brown at 7.35 cm., 152-216 cm.; brownish yellow streaks (10 YR 6/8) at 75, 95, 105-106	CB., 125 & 238-242 cm. Smooth, moist lutite	In this section and the following sections, there is extensive cracking due to the fact the core	was frozen in storage.	242-258	UNFOSS CLAY / DETRITUS Graylah brown (10 YR 5/2)	Smooth, moist lutite; very fine silty layer 257-	ÿ 0	258-376	CALC 002E Pale brown (10 YR 6/3)	Extensive gray (10 YR 5/1) mottling at 258-261 cm., 277 cm., 6. 286-290 cm.; brownish yellow	Smooth, moist lutite with few forms; very fine	Scattered Mn micronodules 322-350 cm.	S, X.	376-425 CALC GOZE	Grayish brown (10 YR 5/2) Extensive brown (10 YR 5/3) mottling throughout	Smooth, firm lutifies	ÿ		1
VISUAL C	Ship Work Cruise 110 Total Length 1067 cm. Core condition 5000	Physiographic location (EMCA)	o Log	0-0-0	1 1 6 1 6	4, 4, 4	0 7 0 7	0 - 0 - 1	1	,	10		9 0	145 - 135 - 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	ר, נו	19	4 5 4 5 77	+ 3+ + 1	1 1 0 m	14	1° 1° 1° 1° 1° 1° 1° 1° 1° 1° 1° 1° 1° 1	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	•	· · ·	10
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SHEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES	Knort	Expedition 110	9.		<u> </u>	36 DI NEWT		calc ooze	:	highly calc	:	cale clay	highly calc	unfossiliferous	calc clay w/	:	elightly celd clay w/detritub	:	highly calc	cale clay	elightly celc					
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916, 942-944 cm.; increasing grayish brown (10 YR 5/2) mottling 955-965 cm. Smooth, firm luttee Sediment very disturbed 939-942 cm.; void in core 956-957 cm. CALC 002E TO UNFOSS CLAY W/ DETRITUS Brown (10 YR 5/3) Brownish yellow (10 YR 6/8) atteaks 929-933 cm., P936-940 cm.; gray (10 YR 5/1) mortles 935, Common brownish yellow (10 YR 6/6) stains across 1018-1026 cm., gray (2.5 Y N5/) streak at 1007 Poge 3 of 3 - Core No. S6 Pc 1041 cm.; gray streak at 1038 cm., brownish yellow streak at 1037 cm. Smooth lutite with few forass Scattered pale brown (10 YR 6/3) mottling 1027 Latite with common foreme 1000-1013 cm.; few foreme 1013-1027 G. UNPOSS CLAY / DETRITUS Grayish brown (10 NR 5/2) Very faint gray mottling 968, 977, 988 cm.; increasing pale brown mottling 992-1000 cm. Smooth, firs luttle Voids in core 974-975 6 985-987 cm Detailed Description Graylah brown (10 YR 5/2) Leg 2 Sto. 3% Pale brown (10 TR 6/3) CALC COZE CALC DOZE VISUAL CORE DESCRIPTION END OF CORE 1027-1067 1000-1027 965-1000 919-965 Ship KNORK __ Cruise 110 Lithologic Log B ومل ما دورد 4 4 gradually through yellowish brown to brown (10 YM 5/3) them back to yellowish brown 445-462 cm. Gray mottling at 453-455 cm.
Silty lutite with abundant forass 425-447 cm. Unit begins as pale brown (10 YR 6/3) then changes Grayish brown (10 YR 5/2) Common dark gray mottling, especially 858-860 cm. and 862-868 cm. Smooth, moist lutite, with very fine eilty lutite at 841-868 cm. Smooth, moist lutite 818-825 cm.; the rest of the unit is a very fine silt CALC COZE TO UNFOSS CLAY / DETRITUS TO CALC COZE Roge Z of 3 Leg 2 Ste. 30 Core No. 544C CALC COZE TO SLIGHTLY CALC CLAY TO CALC DOZE Vold in core 667-681 cm. . whatever sediment SLIGHTLY CALC CLAY / DETRITUS
Dark gray (10 YR 4/1)
Unit turns to half grayish brown (vertical
boundary) at 842 cm. Grayish brown (10 TR 5/2)
Faint wary dark gray (10 YR 3/1) mottling throughout unit - extensive at 520-551 cm. Clear gray (2.5 Y M5/)streak at 904 cm. Smooth lutite with scattered forms Few Mn micromodules at 897 & 910 cm. rest of unit is smooth, firm lutite Scattered Mn micromedules 444-449 cm exists is too disturbed to study Detailed Description Yellowish brown (10 TR 5/6) CALC 0028 Pele brown (10 YR 6/3) Smooth, firm lutite UNITOSS CLAY VISUAL CORE DESCRIPTION 010-850 882-919 425-472 472-818 150-112 Ship was R. Crulse 110 5 a 0 1 4 의 1 Lithologic 3 3 19 0 9101 1 7 10 ۵ 1,1 ¢ B z 3

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SHEAR SLIDE DESCRIPTIONS - N.H.O.I. SEDIMENT CORES

SPEAR SLIDE DESCRIPTIONS - M.H.O.I. SEDINENT CORES

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Description 1. Let Last 2. Sta 35 Core No 54-94 The Let Last 2. Sta 35 Core No 54-94 CLEARA 6(54 Detailed Description Detailed Description Detailed Description 1. Let Last 2. Sta 35 Detailed Description Detailed Description Detailed Description 1. Let Last 2. Sta 35 Increasing way actif graytab brown (10 M 3/2) 13 Talloriab brown (10 M 3/4) Stalloriab e brown (10 M 3/4) Stalloriable brown (10 M 3/4) Stalloriable brown (10 M 3/4) Stalloriable brown (10 M 3/4) Stalloriable brown (10 M 3/4) Stalloriable brown (10 M 3/4) Stalloriable brown (10 M 3/4) Stalloriable brown (10 M 3/4) Stalloriable brown (10 M 3/4) Stalloriable brown (10 M 3/4) Stalloriable brown (10 M 3/4) Stalloriable brown (10 M 3/4) Stalloriable brown (10 M 3/4) Stalloriable brown (10 M 3/4) Stalloriable brown (10 M 3/4) Stalloriable brown (10 M 3/4) Stalloriable brown (10 M 3/4) Stalloriable brown (10 M 3/4) Stalloriable brown (10 M 3/	SMEAR SE		- [SEDIMENT	3471	CALC 002E	UNFOSS CLAY	MICRONODULES	UNFOSS CLAY	MICRONODULES	SLIGHTLY CALC	CALC 00ZE										٠
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	NO Les	n 6400 February CEARA RISE	Detailed Desc	0.	+ 1 1 0.28	CALC COZE TO UNFOSS C NICHONODULES	Yellowish brown (10 YR 3/4) Increasing very dark grayish brown (10 YR 3/2) 13- 2) ca. from faint to dominating; 23-28 cm. is	softling state of the state of	+0+		SLIGHLY CALC CLAY/DI Gravish brown (2.5 Y	comon light unit; gray	moist lutite	70-123	This unit repeats, in exact sequence, the previous two units; probably due to repeated penetration	er disturbance during coring.	123-140	1	See Trail See	END OF CORE	:				

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AL CORE DESCRIPTION	Cruise110 Leg 2 Sta. 40 Core No58GGC	Detailed Description	282-298 MIGHLY CALC CLAY JOTR 5/6 yellowish brown smooth lutite with common forams one JOYR 4/2 dark grayish brown intercalated area from 286-287 cm.; one less densely inter- calated area from 282-283 cm.	298-308 BIGRLY CALC CLAY 10TR 5/3 brown extensively mottled with darker material through- out interval emoch lutite with ecattered forans EMD OF CORE			-
VISUAL	Ship Knorr	Lithologic	դուդուդու	ոլույլուդու	արդարարարար	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
FION Page L of 2	Let feel star Long 43 - 2.42 Core No SBEEL Let feel star Long 43 - 2.42 W Depin 43 Man	Detailed Description	CALC GOZE 10TR 6/4 light yellowish brown faint mottling if any lutite with abundant forame 6	MIGHLY CALC CLAY 7.5Th 5/6 strong brown scattered mottling smooth lutite with common forams 10Th 3/3 dark brown intercalated areas from 22 to 25 cm, 29-34 cm., 38-43 cm., and 50-54 cm.	MICHLY CALC CLAY 10TR 2/4 very pale brown, 10YR 6/3 pale brown, 10TR 6/4 1ight yellowish brown common socialing of 10TR 5/3 brown material throughout section smooth lutite with forams ranging from scattered to abundant throughout lacks intercalated arrans. 4t 70 cm 7.5YR 5/8 strong brown 0.5cm thick, semi-intercalated layer; other similarly colored layers at: 128- 130, 140, 198, 209, 223 cm.	CALC COZE 10TR 6/4 light yellowish brown common mottling of 10TR 5/3 brown material through- out interval emooth lutite with abundant forams G	MICHLY CALC CLAY IOYR 6/4 light yellowish brown feats mottling its properties of the common feats of the common to extensive common to extensive G
VISUAL CORE DESCRIPTION	9 4	10C0110N COLOR	_	911	, , , , , , , , , , , , , , , , , , , 		3
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SPEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIPENT CORES

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Safe	Expedition.	Leg No.				LEWEL	13 cm	35	95	146	220	292	276	162	301						

Cruise No SI Core No SI PC Leg Z Sio 39 Core No SI PC Leg Z Sio 39 Core No SI PC Establish Catalon Keen Rise Detailed Description	0-31 Grayish brown (10 YR 5/2) Grayish brown (10 YR 5/2) Scattered mottling in uppermost 10 cm., then faint throughout Smooth lutite with common forans Core overpenetrated? Thin sitt layers from 15-17 cm.; top 2 cm. of interval is (10 YR 5/4) yellowish brown G.	31-194 GALC CLAY Brown (10 YR 5/3) Commonly mottled throughout Smooth lutite with common forams 163-166 Cm. missing; Mn micronodules present; dark yellowish brown (10 YR 4/6) layer at 110 cm. G. 194-430 HIGHLY CALC CLAY Many color variations throughout; mainly (10 YR	5/3) brown into light yellowish brown (10 YR 5/4) near 345 cm. to base of unit. Scattered to commonly mottled throughout Smooth lutite with common forans forans Several dark yellowish brown (10 YR 4/6) areas in interval such as 216, 304, 306, and 399-404, 413-413; from 387-430 "stained" brownish yellow (10 YR 6/8). 6.	Commonly to extensively mottled Commonly to extensively mottled Smooth lutite with common forams Void from 649.652 cm.
Length 103- condition 100- ingic 100			1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
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SHEAR SLIDE DESCRIPTIONS - M.H.O.I. SEDIMENT CORES		KNR	Expedition 110	9					SEDIMENT	TYPE			SLIGHTLY CALC	CL W/DETRITUS	CALC 00ZE	SLIGHTLY CALC		CALC UOZE	CLAY	HIGHLY CALC	HICHLY CALC	SLIGHTLY CALC	CALC OOZE	UNFOSS CLAY/	SLIGHTLY CALC	CLA	CALC OOZE	DETRITUS			
		Shtp:	Expedi	Leg No.						ונגנו				23	08	160	3	502	730	380	097	075	930	720		CON B	880	960			
VISUAL CORE DESCRIPTION POGE Z of Z	Cruise WU Leg 2 Sta. 39 Core No. 59PC	Social Land			718-880 SIJORIN CALC CLAY	_	6/3)	Mottling ranges from scattered to compon Smooth lutite with forems ranging from scattered		Many dark yellowish brown "stained" areas in interval: 716-731, 800-809 858-873		860.98	-	Componly mottled	Smooth lutite with con			949-1076	Remainder of core is Flow-in.	100 40 ac	1		1						1		_
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519410 Discoasters **TR**

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Biogenous Material
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Ship: Knorr Core M	Expedition 110 Station	Leg No. 2	ESTIN	Inorganic Naterial		Sal	TYPE all all all all all all all all all al	etrit Heron eolit	highly calc	12 cm clay 17 4	60 " " Tr 1																-
Cruise IID Leg 6 Sto. 57 Core No 31/10 L1 cm. Lot 6 515/4 Long (2.311/2 Depth 1515/2 Flora 1 Date Described 5/4/82 by 2/4/11	Detailed Description			HIGHLY CALC CLAY 1078 4/4 days wellowish become force 1078 4/4 days wellowish	brown at 10 cm. Scattered mottling: fairly to heavily intercalated from	9-21 CB.	Multiple penetration of trigger core.	- 10TR 4/6 dark yellowish brown indurated debris at 24 cm.	26-62	HIGHLY CALC CLAY	Common) w mottled	Smooth Jutte with common forms	of interval.	First sents form //* very pare offers in color iffer \$2-55 cm.: formed?	· ·	HIGHLY CALC CLAY	brown brown brown into lure 4/4 derk yellowien brown	Scattered mottling with Iditly to neavily intercalded	Unit came as 0-25 cm. 107R 4/6 dark yellowish brown		116-129	10YR 5/3 brown	Smooth luttle with common forems	Unit seme as to-dt cm.	END OF CORE		
	Lithologic	7 +0	- +	0		1	4	4	1 +	1		3	•							·							

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POT-BINS Clay

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Pteropods

Biogenous Material
Calcareous

ESTIMATED ABUNDANCES (%) Total Core Length 129

Core No. 59PC

Station No. 39

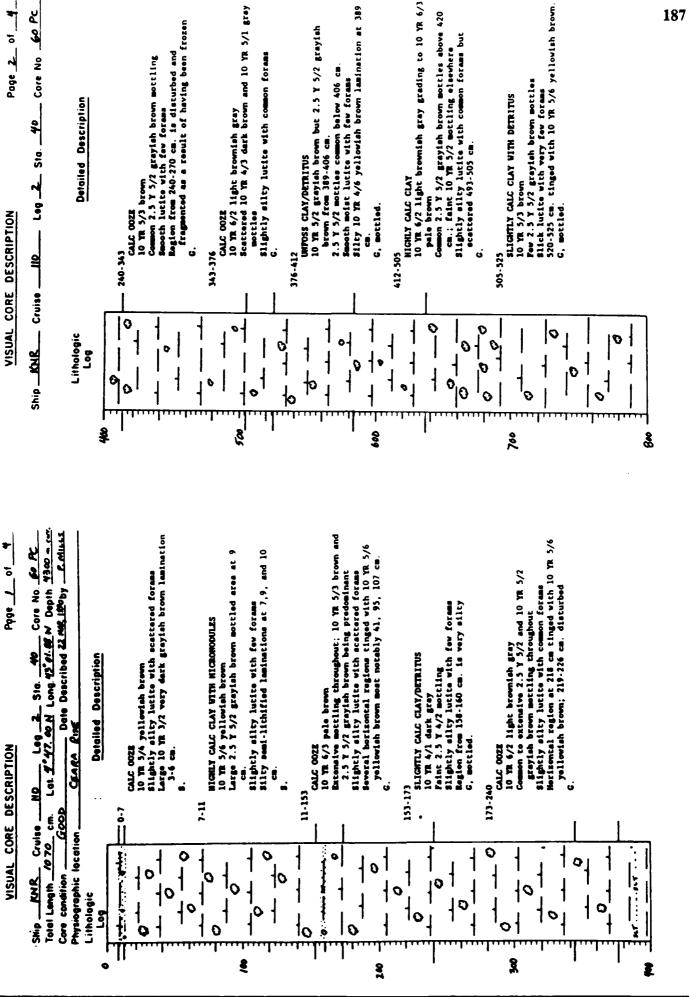
SHEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Poge 1 of 1

VISUAL CORE DESCRIPTION

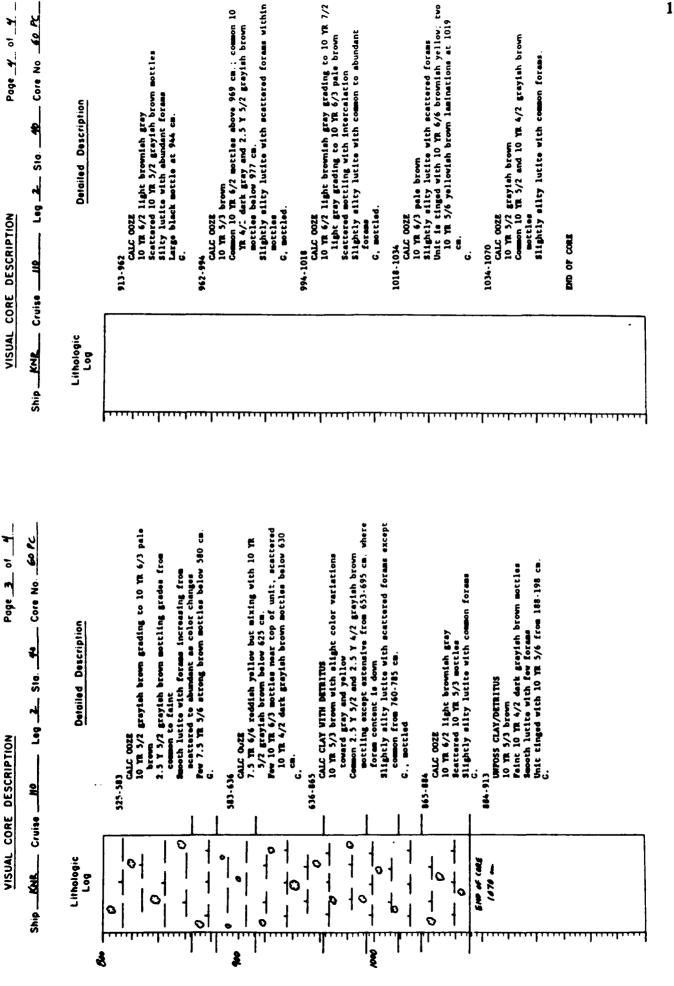
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Poge 2 of 4

Core No



SHEAR SLIDE DESCRIPTIONS - N.H.O.I. SEDIMENT CORES .

SHEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

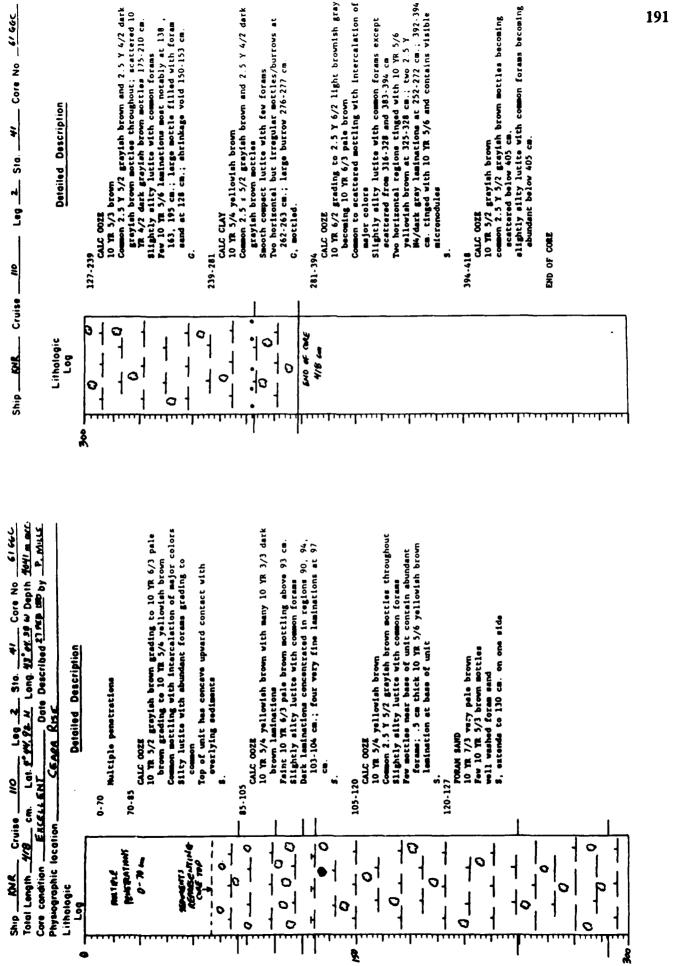
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•	tation No. 40	1070	STIMATED ABUNDANCES (%)	Blogenous Materia	Calcareous	\$44 1 \$114	Forest Mannofoss Pteropods Discoaste Others Distoms	36 TR	20	35 TR	68 72 1	2 45	#	\$£		S 20 TR TR	3 2	15 20 4	37] , [23 IR IR	10 38 2	111	18 42 2	20
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•	Station No. 40	1070	ESTIMATED ABUNDANCES (%)	Material Biogenous Materia	Sand Calcareous	\$44 1 \$114	C1ay Foreme D1scoaste Others Others	3 36 TR	2 20	4 35 TR	\vdash	2 45	#	\$£	11	\$ 20 TR TR	3 2	15 20 4	3 37	TR 7	2 2 IR IR	10 38 2	12	18 42 2	3 50
•	Station No. 40	1070	ESTIMATED ABUNDANCES (%)	Material Biogenous Materia	Sand Calcareous	Sua SLIS Spui	Micronoda Zeolites Volcanto Serences Mannofoss Pteropods Others Others Others	3 36 TR	2 20	4 35 TR	\vdash	2 45	#	\$£	11	\$ 20 TR TR	3 2	15 20 4	3 37	TR 7	2 2 IR IR	10 38 2	61 72	18 42 2	3 50
•	Station No. 40	1070	ESTIMATED ABUNDANCES (%)	Blogenous Materia	Sand Calcareous	\$1,5 \$1,5 1	Micronoda Zeolites Volcanto Serences Mannofoss Pteropods Others Others Others	SO 3 36 TR	49 2 20	56 4 35 TR	\vdash	3 45 5 45	#	2 50 8 34	25	1 72 \$ 20 TB TB	3 22 78 5	3 53 15 20 4	50 3 37	72 TR 7	2 2 IR IR	62 10 38 2	2 61 77	1 2 24 81 27 2	60 3 80
•		1070	ESTIMATED ABUNDANCES (%)	Material Biogenous Materia	Sand Calcareous	Sua SLIS Spui	Micronodi Mannofossi Porent Forent Mannofossi Mannofoss	2 8 50 3 36 TR	8 20 49 2 20	1 2 56 4 35 TR	30 1 68	3 45 5 45	76 78	2 50 8 34	3 57 73	2 1 72 5 20 118 118	20 3 72 3	3 3 15 20 4	6 5 50 3 37	15 4 72 TR 7	15 4 55 2 2 18 TR	3 62 10 38 2	2 61 77	1 2 24 81 27 2	3 40 3 50
Core No.	Station No. 40	1070	ESTIMATED ABUNDANCES (%)	Material Biogenous Materia	Sand Calcareous	Sula Sput Sput Sula Sula	Detrital Distons Distons Distons Distons Peropods Volcanic Solites Solites	2 8 50 3 36 TR	8 20 49 2 20	1 2 56 4 35 TR	30 1 68	1 3 65 545	S 20 4 78	50 8 34	25 C 09 S	2 1 72 5 20 118 118	20 3 72 3	3 3 15 20 4	6 5 50 3 37	1/ 15 4 2 TR 7	C CL 15 4 55 2 23 TR TR	3 3 62 10 38 2	17 15 2 61 72	1 1 1 1 25 2	4 3 60 3 50
•		1070	ESTIMITED ABUNDANCES (%)	Material Biogenous Materia	Sand Calcareous	Sula Sput Sput Sula Sula	Detrital Distons Distons Distons Distons Peropods Volcanic Solites Solites	2 8 50 3 36 TR	8 20 49 2 20	1 2 56 4 35 TR	30 1 68	1 3 65 545	S 20 4 78	50 8 34	25 C 09 S	2 1 72 5 20 118 118	20 3 72 3	3 3 15 20 4	6 5 50 3 37	1/ 15 4 2 TR 7	C CL 15 4 55 2 23 TR TR	3 3 62 10 38 2	17 15 2 61 72	1 1 1 1 25 2	4 3 60 3 50
DAL Core No.	- 917	1070	ESTIMATED ABUNDANCES (%)	Material Biogenous Materia	Sand Calcareous	Superior Sup	Micronodi Mannofossi Porent Forent Mannofossi Mannofoss	2 8 50 3 36 TR	8 20 49 2 20	1 2 56 4 35 TR	30 1 68	1 3 65 545	S 20 4 78	50 8 34	25 C 09 S	2 1 72 5 20 118 118	20 3 72 3	3 3 15 20 4	6 5 50 3 37	1/ 15 4 2 TR 7	C CL 15 4 55 2 23 TR TR	3 3 62 10 38 2	17 15 2 61 72	1 1 1 1 25 2	4 3 60 3 50
Core No.	- 917	Total Core Length 1020	ESTIMATED ABUNDANCES (%)	Material Biogenous Materia	Sand Calcareous	Sula Sput Sput Sula Sula	Detrital Distons Distons Distons Distons Peropods Volcanic Solites Solites	2 8 50 3 36 TR	20 49 2 20	1 2 56 4 35 TR	1 89	1 3 45 5 45	S 20 4 78	2 50 8 34	25 C 09 S	CL 2 1 72 5 20 118 118	20 3 72 3	3 3 15 20 4	6 5 50 3 37	1/ 15 4 2 TR 7	15 4 55 2 2 18 TR	3 3 62 10 38 2	17 15 2 61 72	1 1 1 1 25 2	4 3 60 3 50
Core No.	- 917	Total Core Length 1020	ESTIMATED ABUNDANCES (%)	Material Biogenous Materia	Sand Calcareous	Solit Solit Solit Solit	Detrital Distons Distons Distons Distons Peropods Volcanic Solites Solites	2 8 50 3 36 TR	8 20 49 2 20	CALC 002E 1 2 56 4 35 TR	SLIGHTLY CALC 30 1 68	CALC COZE	UNFOSS CLAY W/DETRITUS 20 4 78	CALC DOZE	UNFOSS CLAY W/DETRITUS 40 3 57 TR	MICHIT CALC CL 2 1 72 5 20 TR TR	SLIGHTLY CALC	CALC 002E 3 3 15 20 4	CALC 002E 4 5 50 3 37	CALC CLAY W/ 15 4 72 TR 7	WIGHTY CALC CL 15 4 SS 2 23 TR TR	CALC. DOZE 3 3 3 62 10 38 2	UNFOSS CLAY 15 2 61 TR	CALC. DOZF 1 1 1 15 18 42 2	CALC 002E 4 3 50
DAL Core No.		1070	ESTIMITED ABUNDANCES (%)	Material Biogenous Materia	Sand Calcareous	Sula Sput Sput Sula Sula	Detrital Distons Distons Distons Distons Peropods Volcanic Solites Solites	CALC 002E 2 8 50 3 36 TR	#IGHLY CALC CL #/MICKOWODULES 8 20 49 2 20	1 2 56 4 35 TR	30 1 68	1 3 65 545	UNFOSS CLAY W/DETRITUS 20 4 78	50 8 34	UNFOSS CLAY W/DETRITUS 40 3 57 TR	MICHLY CALC CL 2 1 72 5 20 TR TR	SLIGHTLY CALC	CALC 002E 3 3 15 20 4	6 5 50 3 37	1/ 15 4 2 TR 7	WIGHTY CALC CL 15 4 SS 2 23 TR TR	3 3 62 10 38 2	UNFOSS CLAY 15 2 61 TR	CALC. DOZF 1 1 1 15 18 42 2	CALC 002E 4 3 50

Sponges

VISUAL CORE DESCRIPTION	Cruise 110 Leg 2 Sto. 40 Core No. 60 Rd. cm. Lat 2"57 ac N. Long 43° 61. 84" W Depth 4280 m. cer. Good Date Description Detailed Description	0-23 GALC GOZE 10 TR 3/2 graylah brown grading to 10 YR 6/3 pale brown grading to 10 TR 5/4 yellowish brown Beattered metring with intercalation \$ilty lutics with abundant forass becoming comon below 15 cm. Shrinkage wold 0-2 cm. G.	HIGHLY CALC CLAY WITH DETRITUS AND MICRONODULES 10 YR 5/4 yellowish brown Few 10 YR 6/3 pele brown mottles above 26 cm. 81ightly silty lutite with scattered forans Unit contains many 10 YR 3/2 very dark grayish brown laminations; unit is more uniform color 8.	40-46 HIGHLY CALC CLAY/MICROMODULES WITH DETRITUS 10 TR 5/4 yellowish brown Few 10 TR 3/2 mottles at 42 cm. Slightly silty lutite with scattered forass Unit contains four 10 TR 5/6 yellowish brown silty/semi-lithified laminations at 40, 41, 43 and 45 cm. S.	46-68 CALC COZE 10 YE 5/2 grayish brown Common 2.5 Y 5/2 grayish brown mottles Slightly silty lutite with scattered forms Unit is tinged with 2.5 Y 5/6 light olive brown at 56, 63-64 cm. Second penetration	DID OF CORE.
VISUAL CO	Ship KNR Cruis Total Length 12.1 Core condition Physiographic location Lithologic Log		000	SEGNO PRIETRATION		
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KNR	Expedition 110	0.				SEDIMENT	CALC DOZE	CALC 00ZE	HIGHLY CALC	AND MICRO-	HIGHLY CALC	NODULES WITH DETRITUS	CALC DOZE								
Sh1p:	Exped	Leg No.				רנאנו	\$	18	30		42		09								



Poge 2 of 2

VISUAL CORE DESCRIPTION

Page 1 of 2

VISUAL CORE DESCRIPTION	Cruise 110 Leg Z Sia 44 Core No 62 PC 13 cm. Lat 4'45.12' N Long 49'03.00' W Depin 4046 m cmr. GOOD Dole Described 30'44.180 by P. MILLE 1			0.22 CALC 002E	10 YR 5/2 grayish brown grading to 10 YR 6/3 pale brown srading to 10 YR 5/4 vellowish brown	Scattered mottling with intercalation Silty lutite with abundant forame grading to common below 14 cm. G. CLC GOZE CALC GOZE 10 YR 5/4 yellowish brown with abundant 10 YR 3/2	very dark grayish brown laminations Scattered 10 YR 6/3 pale brown mottles above 40	Delow 46 cm.	G. G.	52-148 Cal C 0028	10 YR 6/3 pale brown grading to 10 YR 5/3 brown balow	Common 2.5 Y 5/2 grayish brown mottles throughout;	Blow Slightly ally lutte with common forward	For 10 YE 6/6 brownish yellow laminations from 74.	lamination at 60 cm.	146-174	CALC CLAY WITH DETRITUS 10 YR 5/4 velucial brown	Common 2.5 % -/2 grayfah brown mottles throughout	10 YR 5/6 yellowish brown lamination 153-154 cm.	•					
VISUAL CO	Ship KNR Cruise Total Length 773 c. Core condition 600	Lithologic	-		0 + 0	8	† 0 †	0			1		1	01			\	1°	+ + + 2				1	7	9
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CALPT					Single Single	Heronodules	3	9	3		-	•	-	7	2										
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SHEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CONES	IOR	Expedition 110	lo	,		SEDIMENT TYPE	CALC 002E	CALC 00ZE	CALC 00ZE	FCRAM SAND	CALC 00ZE	CALC CLAY	CALC 00ZE	CALC 00ZE	CALC 00ZE										
	Ship	Ехрес	Leg No.			LEWEL	"	95	112	124	180	260	310	405	417	ļ									

Silty lutice with abundant forans except scattered from 534-556 cm. Faint 10 YR 6/6 brownish yallow concave upward lamination at 576 cm. 10 YR 6/4 light yellowish brown becoming 10 YR 5/3 brown mixed with 7.5 YR 5/4 brown Scattered 2.5 Y 5/2 grayish brown mottles throughout; acattered 10 YR 4/3 brown mottles \$11ty 10 YR 5/6 yellowish brown lamination at 62? cm.; mottles above 645 cm. contain greater concentrations of forems than surrounding lutite 10 YR 7/2 light gray but 10 YR 6/2 closer to unit Scattered 10 YR 5/2 grayish brown sottles, larger above 675 cm. 27 79 Page 3 of 4 10 TR 6/4 light yellowish brown Few faint 10 YR 5/2 and 10 YR 6/3 mottles Slightly silty lutite with common forest 10 YR 5/6 concave upward lesinations at 702-708. 10 TR 6/2 light brownish gray except 10 YR 6/3 pale brown from 534-558 cm. Scattered 10 TR 5/2 grayfah brown mottles Core No Smooth lutite with scattered forans Silty lutite with abundant forams Detailed Description Leg 2 Sto. 4/ Few black flecks at 670 cm below 650 cm. throughout contacts C, mottled VISUAL CORE DESCRIPTION CALC COZE CALC DOZE CALC 002E CALC DOZE 508-610 610-660 697-723 660-697 Cruise 18 Lithologic Ship KNR

SNEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES Poge # of 4

VISUAL CORE DESCRIPTION

Leg 2 Sig. 4/ Core No. 62 PC Detailed Description Ship KNR Cruise 110 Lithologic Log

CALC COZE

10 YE 6/2 Light brownish gray

Scattered large 2.5 Y 5/2 grayish brown mottles

Slack facks at 763 cm.: 2.5 Y 5/6 light olive

brown lamination at 777 cm. 723-777

CALC OCCE

10 YR 5/2.5 grayish brown
10 YR 5/2.5 grayish brown
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END OF CORE.

Core No. Š Ship:

Expedition 110

Leg No. _

793 Total Core Length __ Station No.

62 PC

		1.5		4		ESTIMATED ABUNDANCES	D ABL	MDAN	53		X to r	3		\Box
			5116	Sand	Sand			3	Calcareous	4		-	Siliceous	
IEVEL	SEDINENT TYPE	Setrited Salang	Micronodules	Sealifes	Volcanic sbrards	CITÀ	ZM6.TO-1	2 1 2 2 0 7 0 m s M	pteropods	Discoasters	Znert5	2mo16i0	BinsforbsA	2 Doude 2
3	CALC 00ZE	1	9			35	20	24	2		-	-	i	
15	CALC 00ZE	1	10			30	20	28			-	¥.		
36	CALC 002E	. 5	12			0,4	9	36			-			
110		3	7			50	5	39			-			
163	CALC CLAY W/ DETRITUS	15	8			99	TR	,		TR	7			
220	CALC 00ZE	1	2			2	12	28	_					
253	CALC 00ZE	-	°			3	2	18	7		-[7	
275	CALC 00ZE	9	2			\$3	*	34			-			
380	CALC 00ZE	2	3			9	٩	25	m		-			
864	CALC 00ZE	,	3			3	7	30			-			1
635	CALC 00ZE	5	9			67		25	-		-			
989	CALC 00ZE	_	-			*	25	35	2		~			!
710	CALC 002E	2	3			07	2	43	¥		-	_ [
750	CALC 00ZE	3	-			S	15	30			-			
787	CALC 002E	4	~			55	1	30			3			
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Ship: KNR Core P Expedition 110 Static	SEDIMENT SEDIMENT SEDIMENT STATE STA	2 2 2 2	CALC 002E 2		
Ship DAR Cruise 110 Leg 2 Sta #4 Core No 62 PG Total Length 111 cm Lat 1945.12 M Long 13.02.02 w Depth 1016 cm. Core condition GOOD Date Described 21 MM 187b by R. Millet. Physiographic location CEARA Risk Lithologic Lithologic Log Detailed Description		10 TR 3/2 dark grayleh brown laminations The 10 TR 6/3 mettles above 29 cm. Slightly silty lutice with common forans Dark laminations are heaviest from 28-30 cm.	10 YR 5/4 pellewish brown mottles; few 2.5 Y 6/2 Abundant 10 YR 5/3 brown mottles; few 2.5 Y 6/2 11ght brownlah gray mottles with forms from 43. 47 cs. 48. Filestiffied 81. ghtly allty lutite with common to abundant forms 6. mottled.	CALC GOZZ CALC GOZZ 2.5 Y 6/3 light yellowish gray/brown 2.5 Y 6/3 light yellowish gray/brown Scattered 2.5 Y 5/2 grayish brown mottles Stattered 2.5 Y 5/2 grayish brown Scattered 2.5 Y 5/2 grayish brown State 10 YR 5/6 yellowish brown laminations at 53, 66 cm.	SUSPECTED RE-PENETRATIONS End of core

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Diatoms

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sinsforbeA

Discoasters

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Forest CISY

pteropods

Biogenous Material
Calcareous

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Total Core Length 111 ESTIMATED ABUNDANCES (X)

Core No. 62 PG

Station No. 41

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Poge / of 1

VISUAL CORE DESCRIPTION

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Ship Knarr Cruise 110 Leg 2 Sta. 42 Core No 63GGC Lithologic Detailed Description Log	283-295 CALC GOZE 7.5YR 6/6 reddish yellow few mottles smooth lutite with scattered to common forams very uniform in comparison to surrounding units 5, horizontal	295-300 HIGHLY CALC CLAY 10YR 5/8 yellowish brown extensively mottled, intercalated throughout smooth lutite with scattered forms completely intercalated 5, horizontal	300-328 HIGHLY CALC CLAY 10YR 6/4 light yellowish brown scattered mottling in upper 12 cm. only smooth lutite with scattered to common forams lowermost 20 cm quite uniform END OF CORE		
Ship Knott Crulse 110 Leg & Ste. 12 Core No 63 666. Total Length 328 cm. Let. 10 13 22 Long 12027/1 Depth 3892 as Core condition 2666 cm. Let. 10 13 26 22 as Core condition 2666 cm. Let. 10 13 25 2 as Physiographic location 2666 Rise Lithologic Lithologic Detailed Description	353350	CALC 002E 10TE 5/6 yellowish brown wainly intercalated throughout smooth lutite with foress common unit excessively intercalated throughout with derker meterial	20-126 CALC 002E 10YR 5/6 yellowish brown scattered mottling of 10YR 4/3 brown material smooth lutite with abundant to common forans throughout 5, horizontal	128-254 NICHLY CALC CLAY 2.57 5/6 light olive brown with some slight color wariations domcore wariations domcore acattered to common mottling of 10VR 4/3 dark brown material emooth lutite with common forms throughout i41-144 cm - extensively mottled region; 185-186cm: c 10VR 6/4 light yellowish brown	CALC GOZE CALC GOZE OTHER 5/4 yellowish brown scattered mottling of 10YR 4/3 dark brown material, mainly in uppermost 10 cm. semooth lutise with abundant forame, grading into extensive forame at about 270 cm. Pteropods? thin, 0.5cm. thick, 10YR 5/8 yellowish brown layer at base of unit S, horizontal

Poge 2 of 2

VISUAL CORE DESCRIPTION

Poge Lot 2

SHEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES -

Page 1 .. 01 3

	cm. Lot 1 42 Long 42 To Core No 64 PC. cm. Lot 1 42 411 Long 42 To Depth 3350 Core No CENRA RISE	1	•	0.12	CALC COZE Brown (10 VB 5/1)	Faint sottling throughout		12-86 GALC 002E	Dark yellowish brown (10 YR 4/4) Mottling is scattered to common in the unit	Smooth lutite with scattered forams G.	66-319	GALC 002E Brown (10 YR 5/3) into pale brown (10 YR 6/3) from	214-273 cm. into yellowish brown (10 YR 5/4) to base of unit.	otherwise faintly mottled.	Dark yellowish brown (10 YR 4/6) from 209-214 and	Kros 2/0-319 cm.; fairly intercalated from 2/0-319 cm.; Wh micronodule concentrations scattered	C. C. C. C. C. C. C. C. C. C. C. C. C. C	319-553	Brown (10 YR 5/3)	scattered to common mottles with gray (10 TK 2/1) especially 370-428 cm.	Smooth lutite with scattered forams; common forams from 420-450 cm.; few forams to 553 cm.	ં					1
	Ship Kears Cruise WU Total Length 1935 cm. Core condition \$400 Physicarrabic location (\$600)	Lithologic	1 the state of the	 ;	2 + 1 + 2	- - - - - -	4 40 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	1 1 6	11 11	4.9	10	٦٦	→° ;	• 1	1 +	1 1 1 3	1 1	4	1 1 1 E	\	0 0 0		10-1-	1 1 1		1 1	3.
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STEAM SLIDE DESCRIPTIONS + M.M.U.I. SCUINENI CONES	Knorr	ort u	1				SEDIMENT TYPE	c ooze Tr		•	ly calc		:	salc poze	z z	highly calc	1										
	Ship:	Expedition	Leg No				ונאנו	7 cm caic	_	. 08	140 h1gh	184	240 "	265 Ca	. 067		3115										

VISUAL CORE DESCRIPTION	Ship Kears. Cruise NO Leg 2 Std. 472 Core No. 64 fl.	Lithologic Detailed Description	1000 0	i is yellowish brown (10 YR 5/6); bottom 31 is dark grayish brown (10 YR 4/2) 1, firm lutite live cracking at bottom of core.	END OF CORE		huntumhuntuml	 -
VISUAL CORE DESCRIPTION Page 2 of 3	Ship Knacc Cruise NV Leg 2 Sta. 43 Core No. 64-82	Lithologic Detailed Description	533-666 CALC DOZE CALC DOZE A CALC DOZE	ailty lutite with acertered f	CALC GOZE Calculate brown (10 YR 5/4) Faint gray mottling at 666-710 cm.; unit changes to pale brown at about 715 cm. Smooth lutite from 666 to 715 cm., silty with acattered forame from 715-746 cm.	Auto 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	100 The solution of the soluti	1 1 1

SHEAR SLIDE DESCRIPTIONS - N.H.O.I. SEDINENT CORES "

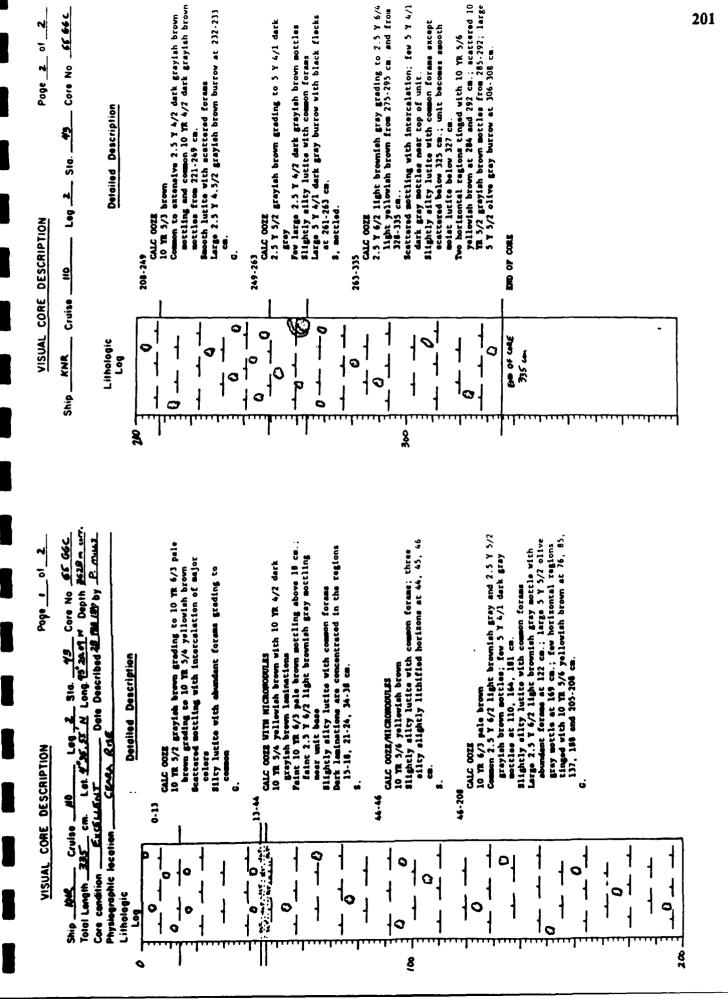
SHEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDINENT CORES

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FOUR CORE DESCRIPTION FOUR IN 126 cm. Lot 12 10 10 10 10 10 10 10 10 10 10 10 10 10	*	1078 3/4 yellowish brown Common mottling in basel 6 cm., faint mottling alsowhere Smooth lutite with common forans Interval of intercalation, except for bottom 6 cm. S, horizontal	MICHLY CALC CLAY 10YR 6/4 light yellowish brown Scattered to common mottling Smooth lutite with common forems 6	89-96 CALC 002E This unit is the same as the above 0-23 cm. interval. Multiple penetration G	98-126 BICHLY CALC CLAY As above, this interval is the same as 23-66 cm.	EMD OF CORE
Ship Mager Cruise. Total Length 126 cn Core condition Grad Physiographic location Lithologic Log	1010	4 0	200 Cole			

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SMEAN SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES



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SHEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES .

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Lot 2' 31-2' A. Long 4'3' Zada V Depth 35 FA. Lot 2' 31-2' A. Long 4'3' Zada V Depth 35 FA. Date Description Detailed Description		common motting throughout abundant forams G	E3 8 E 4	2 cm wide 10YR 5/8 yellowish brown arcuate band at base of unit	'n	_	107R 6/3 pale brown common to extensively mottled throughout	emoth lutite with common forems 217-218, 232-235 cm.; 10YR 5/8 yellowish brown	region S. horizontal	235-272	BIGHLY CALC CLAY 10YR 5/4 yellowish brown	throughout	desorn lutite with comen foress	272-284	CALC 002E 107R 6/4 11ght yellowish brown	ecattered mottling emoon forass	ŭ	284-297 HIGHLY CALC CLAY	107R 5/6 yellowlah brown faint mottling	smooth lutite with common forans	END OF CORE	
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Ship Kharf Cruise 110 Leg 2 Tetal Length 277 cm. Lat 1'31-1'1'1 Core condition 27/2/[lat Data Physiographic location 2/2/2/ Data Lihologic Data 111	1 94	1 1 1 1 1 1	 	10	1°,	 	9	•	о Н	1 1 1	-	3 	101	0 + +		Brut of Care	>				-	
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1610m 110		i i	1795	CALC 002E	CALC OOZE W/	CALC 002E	CALC 002E	CALC 00ZE	CALC 002E	CALC 00ZE	CALC 00ZE											
Ship: Expedition Leg No.			LEVEL	•	30	100	175	227	255	300	334											

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CORES
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Cruise 110 Leg 2 Sto 44 Core No 67PC DEP cm. Lot 4014 484 Long 97 2294 Depth 3408 as SK Celloot Conec. Rise Detailed Description	0-257 HIGHLY CALC CLAY	color veries quite a bit in interval, inc. juling: 10VR 5/3 brown, 10VR 5/4 yellowish brown, 10VR 6/2		9	CALC 002E	common most file, to 280 cm., then faint to acattered most line below	smooth lutite with common forams with forams becoming	e few limits for the control of the	9	312-355 HIGHLY CALC CLAY	faint to scattered mottling smooth lutter with common forms	some intercalation in top 4 cm. grass of Mn micronodules present G	355-564	100ms Curi	emocth lutte with common forams 10VR 4/6 dark yellowish brown layer from 358-359 cm.	9	MICHLY CALC CLAY	Scrieded mottling	653, and 689-715 cm. which have abundant forans	row (13-7); cm. layers of Mn micronodule concent- rations are present
Khorr II Length III condition	1011	1	1 1 1 1	1 + +	+	1	 		1 1	1 1 0 07	1	101	1 0 1	\\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	7-7-	101	1 1 1	1 - 1 - 0	1 1 1
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Core No6666 Station No6467 Total Core Length	ESTIMATED	Ingregate Material	grains Micronodules Leolites folicantc shards Clay	-	3	-	2 69	2 76		1	+									
Ship: Knorr Expedition 110			SE DINE SE DIN SE DINE SE DINE SE DINE SE DINE SE DINE SE DINE SE DINE SE DINE	calc ooze 1		calc oose Tr	" " Tr	highly calc	celc coze Tr	highly calc 2				+						
Ship: Expedi			LEVEL	==	\$9	126	190	121	877	790										

Ship KNORE Cruise LID Leg Z Sta 44 Core No 67PC	Lihologic Detailed Description	TT TT TT TT TT TT TT TT TT TT TT TT TT		9 Co
Ship Kuner Cruise 110 Leg 2 Sig. 44 Core No 62-2	#00 731-814 10TR 6/3 pale brown commonly mottled smooth lutite with common forance he micromodule concentration layers at 739 and 741 cm. G. HIGHLY CALC CIAY HIGHLY CALC CIAY HIGHLY CALC CIAY	form evel light yellowish brown faint mottling	HIGHLY CALC CLAY 1078 5/4 yellowish brown to 980 cm., then 1078 5/3 1078 5/4 yellowish brown to 980 cm., then 1078 5/3 brown below ecattered mottling emooth lutite with common to scattered forans section disturbed between 991-997 cm. and from 1071 to base of core some Mn micronodule concentrations down to 978 cm.	R 8

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VISUAL CORE DESCRIPTION

	Lot	am Rice			0-21 CALC 002E	107R 5/4 yellowish brown common mottling decreasing to scattered mottling	below 11 cm. lutite with abundant forame G 21-64	HICHLY CALC CLAY 107R 5/4 yellowish brown to 107R 4/4 yellowish brown scattered mountling smooth lister with common forest	from 25 cm. to bottom of unit is fairly heavily incertainted	bottom 2 cm. is 10TR 4/6 dark yellowish brown semi- indurated debris	S, horizontal	64-78	CALC COZE 10TR 5/4 vellowish brown	common mottling decreasing to scattered mottling lutite with abundant forame	this unit is the same as the 0-21 cm. interval this core obviously penetrated more than once		78-115 HIGHLY CALC CLAY	10TR 5/4 yellowish brown to 10TR 4/4 dark yellowish brown	ecattered mottling smooth lutite with common forans	as above, this interval is the same as the 21-64 cm. interval	S, horizontel	115-140 RIGHLY CALC CLAY	10TR 5/3 brown faint mottling, if any	smooth lutite with common forams some intercalation present	. Jacob Go Cara	
	Ship Mast Cruise Total Length 140 cm.	Physiographic location Chara		8 T T O 0	1 01	1. 1.0	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	111	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		مري و المره		*****	****	, , , , , , , , , , , , , , , , , , , 	1111	-т	TTTT	· · · · ·	η	•••	7717		111		****
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SHEAR SLIDE DESCRIPTIONS - M.H.O.I. SEDIMENT CORES .

VISUAL CORE DESCRIPTION

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10 W 5/3 brown Common 2.5 Y 5/2 grayish brown sottling Slightly silty lutite with common forms Slightly lithified 10 W 5/6 yellowish brown layer Les. thick 36.59 cm. with sharp contents; large 8 Y 5/2 olive gray burrow at 112-116 cm. scattered 10 W 4/4 dark grayish brown sottles 145-165 cm.; several horizontal regions tainted by 10 W 5/6 yellowish brown soat notably at 116, 122, 198 cm.; shrinkage void 150-152 cm Ship KNR Cruise 110 Leg 2 Sta 45 Core No 60 66c. Total Length 335 cm. Let 4' 22.02 M Long 12'22.15 W Depth 3647 m sm. CEARA REE unit Slightly silty lutite with common forans Dark laminations are most prominent in regions 22-23 cm., 37-42 cm., 49 cm. 10 VR 5/2 grayish brown grading to 10 VR 6/3 pale brown grading to 10 VR 5/4 yallowish brown Faint mottling with intercalation Silty jutite with abundant forass grading to 10 YR 5/4 yellowish brown Common to extensive 2.5 Y 6/2 light brownish gray and 2.5 Y 5/2 grayish brown and 2.5 Y 4/2 dark Slick alightly silty lutite with scattered forans Elongate burrow from 234-238 cm. G. mottled. 10 YR 5/4 yallouish brown with 10 YR 4/2 laminations Faint 10 YR 6/3 pale brown mottles near top of Detailed Description CALC GOZE VITH MICROMODULES Shrinkage vold 0-3 ce. graytsh brown CALC GOZE CALC 002E CALC 002E Core condition EXCELLENT 216-260 49-216 22-49 0-22 Physiographic location The same year O Lithologic 10 0 ٥ G 0 0 8

260-333 CALC DOORS OALS DOORS OALS DOORS OALS DOORS OALS DOORS OALS DOORS OALS DOORS OALS DOORS OALS DOORS OALS DOORS SIGNED with a preceduation above 2835 OALS DOORS SIGNED with a parties a below 2835 OALS DOORS SIGNED with a partie of common formes a below 2900 SIGNED with a partie with common formes a below 2900 SIGNED with a partie with common formes a below 2900 SIGNED with a partie with common formes a below 2900 SIGNED with a partie with a parties a below 2900 SIGNED with a partie with a parties a below 2900 SIGNED with a parties with a parties a below 2900 SIGNED with a parties with a parties a below 2900 SIGNED with a parties with a parties a below 2900 SIGNED with a parties with a parties a below 2900 SIGNED with a parties wit	Core No. 68 GGC Station No. 45 Total Core Length 335	Inorganic Material Biogenous Ma	Clay Forens	5 25 30 35	1 5 35 15 45 TR	3 15 37 4 40	1 4 61 6 45	2 3 43 6 45	8 5 45 5 35	TR 2 50 10 36	5 3 5 31								
Detailed Description LE COLE O WE 6/2 light brownish gray grading to 2.5 Y 6/2 In the 2-contain gray grading to 2.5 Y 6/2 Interest exerting with intercalation above 283 ear; sectored 5Y 4/4 dark gray sortias below 300 cm. Social contains a section of the	<u> </u>		SEDIMENT TYPE	CALC 00ZE	CALC 002E	CALC OOZE W	CALC OOZE	CALC 002E	CALC 00ZE	CALC DOZE	CALC 00ZE								•
260-333 260-333 CALC COLE 10 We 6/2 light brownish gray grading to 2.3 Y 6/2 Might brownish gray grading to 2.3 Y 6/2 Might brownish gray special netwow 28 s. seatered secting with intercalation above 28 s. seatered 3Y 4/1 dark gray socials below 30 cs. : acatered 3Y 4/1 dark gray socials below 30 cs. : grades to 2.5 Y 6/4 light yellowish berow from 294-318 cs. : boritontal lastostion ish tinged with 10 W 3/6 yellowish brown at 309 cs. : triangular waid from 310-335 cs. END OF COME	Ship: Exped		LEVEL	٢	15	07	100	291	230	790	330								
· · · · · · · · · · · · · · · · · · ·	Detailed	ALC 002E 0 YR 6/2 light bromish light bromish gray	ca.; seattered 3Y 4/1 dark gray mottles below 300 cm. 300 cm. 31ightly silty lutite with common forans gediment color grades to 2.5 Y 6/4 light yellowish brown from 294-318 cm.; horizontal lamination tinged with 10 YR 5/6 yellowish brown at 309 cm.; triangular wold from 330-335 cm.	END OF CORE										_1					
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Biogenous Material
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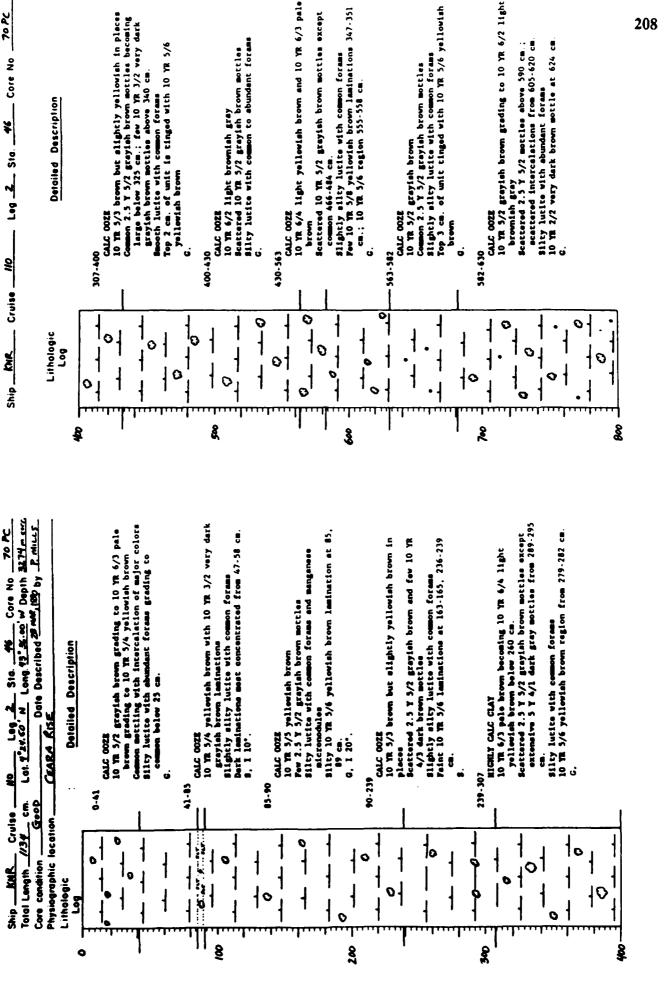
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SMEAR SLIDE DESCRIPTIONS - W.H.O.1. SEDIMENT CORES

Ship KMR Cruise HO Leg 2 Sto. 45 Core No. 68 GGC

VISUAL CORE DESCRIPTION

Poge 2 of 2



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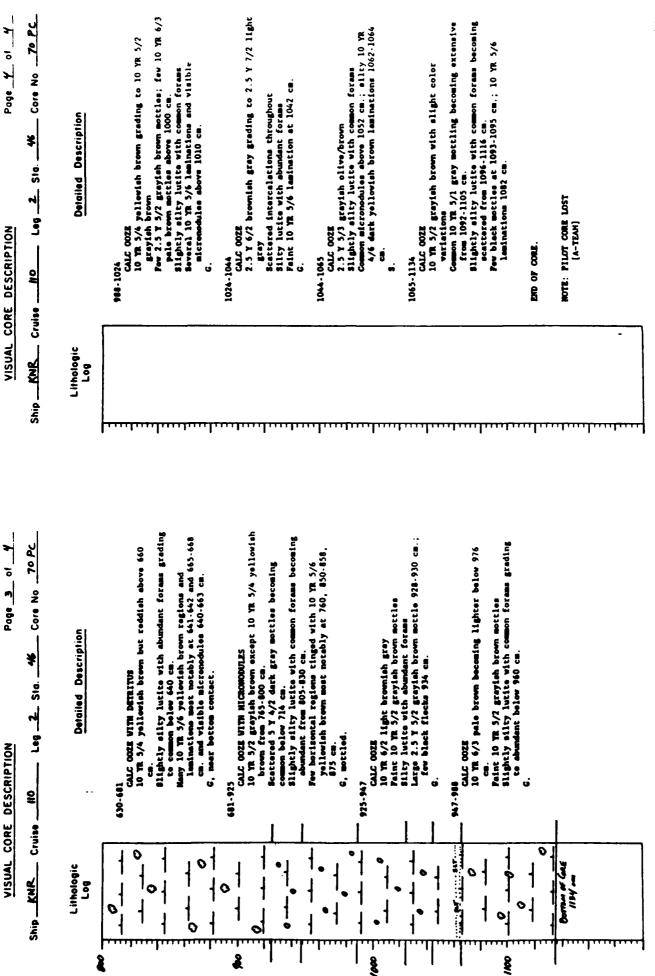
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Poge 2 of 4

VISUAL CORE DESCRIPTION

Page 1 of 4



CORES	
SEDIMENT	
- W.H.O.1.	
DESCRIPTIONS	
SEAR SLIDE	

CORE DESCRIPTION	Cruise IID Leg L Sto. 47 Core No 21666 235 cm. Lot. 4°2182 Long 11°4184 Depth 3164 m election Comme Rise	1		- 0-15 CALC 002E	10YR 6/4 11ght yellowish brown common mottling, especially near top	15-55 HIGHLY CALC CLAY 10YR 5/6 yellowish brown scattered mottling smooth lutite with common forams		55-281	HIGHLY CALC CLAY 10YR 5/4 yellowish brown	common mottling throughout amount lutite with common forams	101R 5/8 yellowish brown indurated layers at: 94,95,133,134,170,209, and 230 cm.	y	281-297 Highly Calc Clay	10YR 6/4 light yellowish brown scattered mottling	smooth lutite with common forams G	297-335	HIGHLY CALC CLAY 10YR 7/6 yellow	scattered mottling smooth lutite with common forems	107R 5/8 yellowish brown indurated layers at 311 and 312	END OF CORE				
VISUAL CO	Ship Knace Cruise IID Total Length 31.5 cm. 1 Core Cadition 61.5 Libert Physicarcophic location Core	Lithologic	0 100	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	Siliceous	Piatoms Radiolaria Sponges	4 1	1 0	4	101	1	om %/	 	9 1	4	1	0 1,		2007	1 1 6	4	the same	>	-
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360	70 PC	9		ESTIMATED ABUNDANCES (X)	Stor	Pteropods		Ĕ	Ĕ	Ĕ	-	_		_	7	-	_		_	_	_		_	-
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SHEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES	u.c.	Expedition 110	9.			SEDIMENT	CALC 00ZE	CALC 00ZE	CALC 002E	CALC 00ZE	HIGHLY CALC	ZZOO OTEO	CALC 00ZE	CALC OOZE	CALC DOZE	CALC 00ZE	CALC 002E W/	CALC GOZE W/	CALC DOZE	CALC 002E	CALC 00ZE	CALC OOZE	3200 CALC 002E	
	S <u>A</u>	Exped	Leg 16.			LEWEL	•	œ	68	160	260	SX.	979	\$10	575	910	658	900	915	970	1010	\$	rm.	

SHEAR SLIDE DESCRIPTIONS - M.H.O.I. SEDIMENT CORES

Page 1 01_2

State No Leg 2 Sta 44 Core No 32 Pt 967 cm. Lat 44 Long 45 402 2 Depth 5194 boch of the Tau Au Long 45 402 2 Depth 5194 boch of the Tau Au Long 45 402 2 Depth 54 State Au Otton CEARA RISE	Description		0-43	- Brown (10 YR 5/3) Contrad gravial brown (10 YR 5/2) morelless on		43-43 GALC GOZE Yellowish brown (10 YR 5/4)		CB., then back to yellowish brown Smooth lutite with few forems		159-729 627-021	Extensive grayish brown mottling 75.96 cm; unit	changes thru page brown (10 M 6/1) to light yellowish brown (10 M 6/4)	MOOCH LUCIES WITH ESW ESTABS; BILLY LUCIES 210.	· B · 6	1200 CVP	Brownish yealow (10 M 6/8) Faint graylsh brown mottling throughout unit	S. M.	269-452	Grayish brown (10 YR 5/2)	derk grayfar brown mottes throughout unit,	Smooth lutite with few forms	ذ ا		
Ship Yearc Cruise Total Length West cm. Core condition 50C.D Physiographic location U	Lithologic	+ + +	1 2 1	1 1 01	1 01 1 1 1 1 1 1 1	- 1 - 1 - 1 - 1	1 o	٦, ١	047	10 10 1	1 1 1	4-7		1	0 + + 0	1 0. 1 0. 1 0.	0 .		- - - - - - -	4	1 1	 - - -	74 74 74	13
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VISUAL CORE DESCRIPTION

Ship Knett Cruise JAD.

Leg Z_ Sig. 43_ Core No. 328C

SEDIMENT TYPE TYPE CALC GOZE TR TR TR TR TR TR TR TR TR T	Ship: Expedition	Shij Expe	tto K	110	ı	3 %	Core #
CALC DOZE This between (10 TH 6/2) Light brevental gray (10 TH 6/2) Light brevental gray (10 TH 6/2) Light brevental gray (10 TH 6/2) Light brevental gray (10 TH 6/2) List lattice with seattered forms: layers have between societies This section of the core has many crecks CALC DOZE LEVEL Type CALC DOZE LEVEL TYPE Type CALC DOZE The between (10 TH 5/2) to brown and threugh gray and changes threugh graylab brown (10 TH 5/2) to brown and threugh graylab brown (10 TH 5/2) to brown and threugh graylab brown (10 TH 5/2) to brown and threugh graylab brown (10 TH 5/2) to brown and threugh graylab brown (10 TH 5/2) to brown and threugh graylab brown (10 TH 5/2) to brown and threugh graylab brown (10 TH 5/2) to brown and threugh graylab brown (10 TH 5/2) to brown and threugh graylab brown (10 TH 5/2) to brown and threugh graylab brown (10 TH 5/2) to brown and threugh graylab brown (10 TH 5/2) to brown and threugh graylab brown (10 TH 5/2) to brown and threugh graylab brown (10 TH 5/2) to gray to the coze of the coze of threugh graylab brown (10 TH 5/2) to gray to the coze of threugh graylab brown (10 TH 5/2) to gray to the coze of threugh graylab brown (10 TH 5/2) to gray threugh graylab brown (10 TH 5/2) to gray to gray threugh graylab brown (10 TH 5/2) to gray to gray threugh graylab brown (10 TH 5/2) to gray threugh graylab brown (10 TH 5/2) to gray to	Leg No.	Leg		2		٩	Total
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CALC GOZE 10 CALC		13,31		[411714]	Micronodules Micronodules	Volcanic Shards	VAIO
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This can be through to light brownish gray at 743. Firm lutite with few foreas: light brownish gray areas have abundant foreas areas have abundant foreas G. G. G. G. G. G. G. G. G. G		36		-	2	_	7
G. CALC GOZE C. CALC GOZE C. CALC GOZE C. CALC GOZE C. CALC GOZE C. CALC GOZE C. CALC GOZE C. CALC GOZE Vellowish brown (10 VR 5/4) Sestered dark gray brown mottles; unit changes to brown (10 VR 5/3) for rest of core Firm lutite with scattered forces Vellowin in CALC GOZE Vellowin in		90		-	2		
140 CALC 002E		06			2		
Colic cole Seattered dark gray brown mottles; unit changes to brown (10 YR 5/3) for rest of core brown (10 YR 5/3) for rest of core brown (10 YR 5/3) for rest of core Firm lutite with scattered forms 5730 CALC COLE 7022 7104 in 7105 in 7106 CALC COLE 7107	_	140	_		1		3
Scattered dark gray brown mottles; unit changes to 208 CALC GOZE		162			\$		7
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Biogenous Material
Calcareous

ESTIMATED ABUNDANCES (X)

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Core No.

Total Core Length __

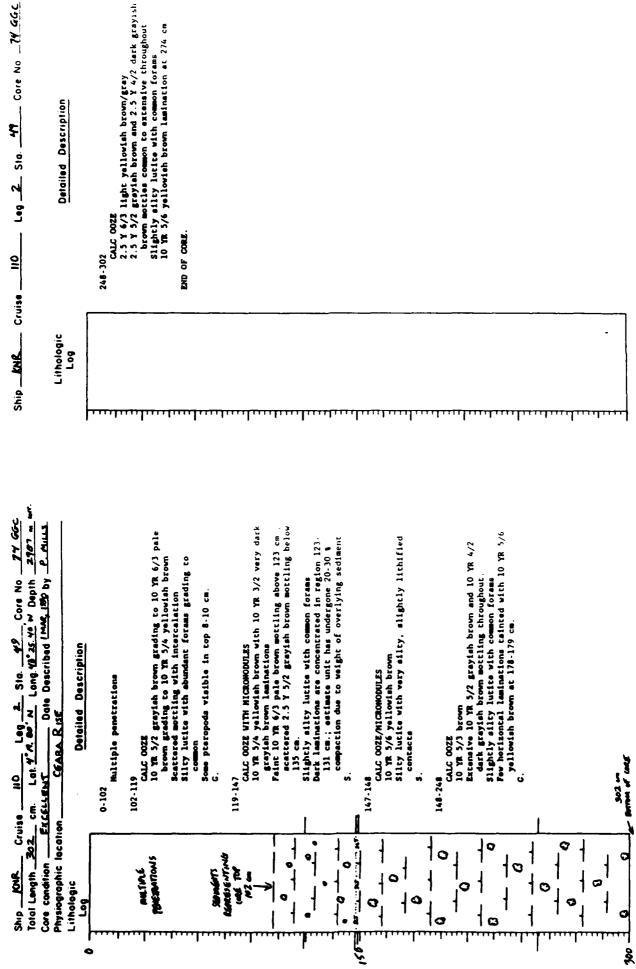
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SMEAR SLIDE DESCRIPTIONS - N.H.O.1. SEDIMENT CORES

Page 1 of 1

. 5 9	23-41 20.40. OXIX 10 YR 3/3 brown Seatcard 10 YR 6/3 pale brown and 10 YR 5/4 yallowish brown mettles 31ightly silty lutite with common forms Few 10 YR 3/6 yallowish brown laminations at 38-41 cm.; cenvex upward 41-131 CM.C OXIX 2.5 Y 6/3 light yallowish gray/brown but darker mark base Seatcared 10 YR 6/1 gray and 10 YR 5/3 brown Slightly silty lutite with common forms Unit is markled near base; thin 2.5 Y 5/2 grayish brown lamination at unit base 8, 1 5'. 151-167 CM.C OXIX 2.5 Y 6/3 Seatcard 2.5 Y 5/2 grayish brown mottles 8, 1 5'. 167-169 CM.C OXIX 10 YR 5/3 brown Mostar lutite with acattered forms Few 10 YR 4/2 laminations at top of unit	
Ship KNR Cruise Total Length (69 Care condition Exc Physiographic location Lithologic Ling Exc	101 101 101 101 101	
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Shtp:	Leg No.			LEVEL			17	32	80	130	160	168											



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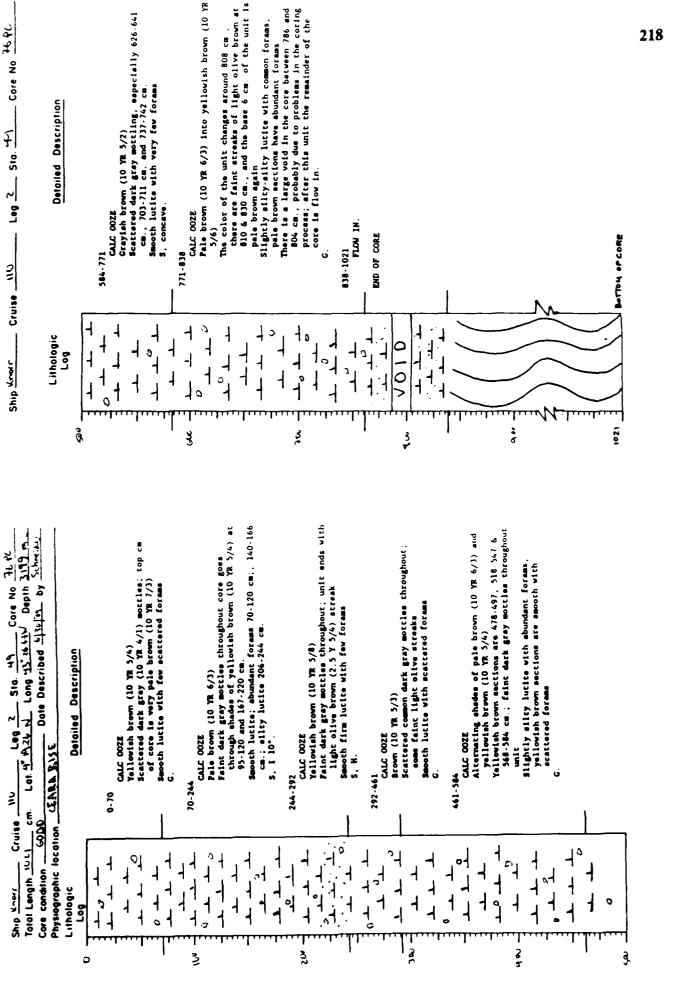
Page 2, of

VISUAL CORE DESCRIPTION

Page 1 of 2

DESCRIPTION Page /	. 18	Detailed Description	9:0	HIGHLY CALC CLAY 10TR 7/4 very pele brown	lutite with abundant forans G. 16-67	10YR 5/6 yellowish brown scattered sociling	heavily intercelated from approx. 30-50 cm.	67-208	CALC COZE 107R 6/4 light vellowish brown	scattered to common motting in last 10 cms. lutite with common forans	U	208-217 CALC GOZE	10TR 7/6 yellow Boattered mottling down to 212 cms.	lutite with abundant forens	217-261	CALC GOZE 1078 6/4 light yellowish brown	ecattered, but common mottling from 228-238 cms. lutite with common forame	alight color variations throughout section; three distinct 10% 3/8 wellowish brown this (f) 5 cm.)	ice-rafted layers at 256,257,258 cms.	261-277		Scattered mottling lutite with abundent (orase (Pteropods))	G		
Ship Kharr Cu	Total Length 155 cm. Core condition 2XXX/(Est) Physiographic location	Lithologic O Log	31	1 4	1 9 1	+ + + + + + + + + + + + + + + + + + +	· · ·	10	1 1	1	1	1111	7 7 0 00	1 1 1	10	┨ ┨ ┨	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		1 1 1 1	4 4	4	† † † † •	0	and of the	,
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SPEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES	Ship: ENR	~			SEDIMENT		CALC 002E	CALC 002E	CALC OOZE W/	CALC 002E /	CALC GOZE	CALC 00ZE	CALC DOZE												
	Ship:	Leg No.			ונאנו		103	113	230	29	88	270	TQF												

Langer Cruise												
Lithologic	Detailed Description	Sh1p:	Knorr			Š	Core No.	<u>×</u>	75GCC	1		
tog		Ехреф	Expedition 110			Sta	Station No. 49		61	ł		
_		Leg No.	02			Tot	Total Core Length	Lengt		355	1	5
	277-355 CALC 002E					23	ESTIMATED ABUNDANCES (%)	ABUNE	ANCES	3	1	
	10YR 5/4 yellowish brown faint mottling, except for bottom 7 cm., which			Inor	Inorganic Material Silt & Sand	eterial and	ľ		Biogenous Calcareous	snons sous	Material	Siliceous
	is commonly mottled lutite with common forame foram-rich "pods" at approx. 279-280, 282-283 cm.;		SEDIMENT	Su	sa	sp				S		
	CAND OF CORE		TYPE	fatinda0 isng	Micronodul Seolites	Volcanic	Clay	ZMB-101	tazofonnsk Pteropods	of scoas ter	2 Suppliers	einetoms Zineforbe9
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Core No 76 PC

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VISUAL CORE DESCRIPTION

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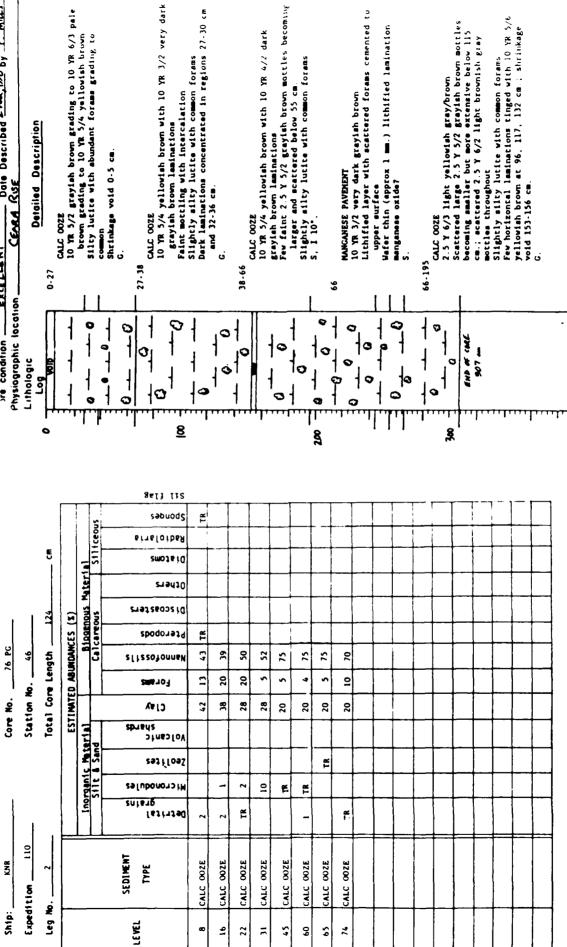
SMEAR SLIDE DESCRIPTIONS - M.H.O.I. SEDIMENT CORES .

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sfissol sboo svatse	Calcareous	ESTIMATED ABUNDANCES (%)	Total Core Length 1021	lo. 49	76 PC
tes greins ces shards ley	Silt & Sand	Increase to the texts!	Total Cor	Station No.	Core No.
SEDIMENT TYPE				Expedition 110	KNR
LEVEL		•	Leg No.	Expedi	Sh1p:

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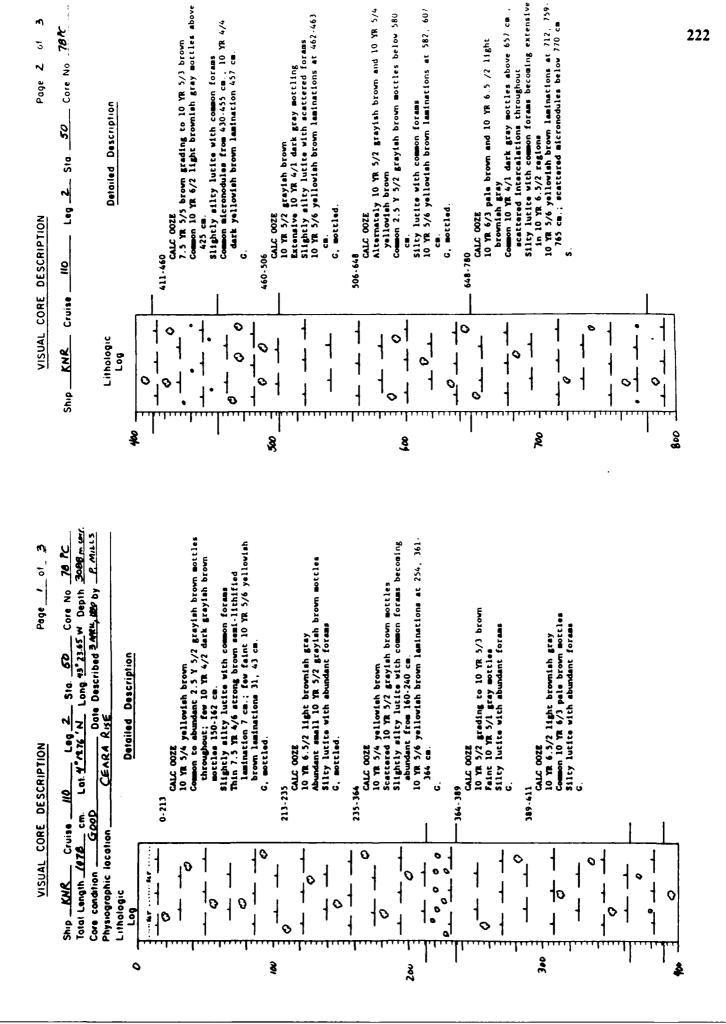
- Date Described 434 Thy by Salve show The remainder of the core repeats the above 3 unit descriptions, suggesting that the core penetrated twice or was disturbed during coring Page 1 of Lot " Azb W Long 13 16 514 Depth 319 -Light yellowish brown (10 YR 6/4) Unit grades from light yellowish brown to yellowish brown (10 YR 5/6) from 11-25 cm. to brownish yellow (10 YR 6/6) from 25-38 cm. and Smooth lutite with few forams; bottom cm. of unit back to yellowish brown; extensive dark brown (10 YR 3/3) atreaks from 30-39 cm. Bottom cm. of unit has dark yellowish brown (10 YR 4/6) atreaks. Brown (10 YR 5/3) Faint-comeon grayish brown (10 YR 5/2) streaks Smooth, moist lutite G. Pale Brown (10 YR 6/3) Silty lutite with common forems First 5 cm. of core void due to settling G. has silty, claylah consistency I, 20° Detailed Description VISUAL CORE DESCRIPTION Physiographic location CENRA RISE CALC 00ZE CALC 002E END OF CORE 77-124 Ship wor! Cruise WU Total Length 124 cm. Core condition 1200 11-65 65-77 0-11 en en core Lithologic ٥ 1 Š \$ క్ష

Page 1 of 2



2.5 Y 6/3 light yellowish gray/brown Few 2.5 Y 7/2 light gray mottles near top of unit, scattered 2.5 X 5/2 grayish brown mottling below - Core No 77 GGC CALC 002E
2.5 Y 7/2 light gray
Common 10 YR 5/2 grayish brown mottles; few large
Campon 10 YR 5/2 grayish brown mottles; few large
Elaffithy silty lutite with rommon forams
Elongated horizontal burrow at base of unit Extensive 2.5 Y 5/2 grayish brown Extensive 2.5 Y 5/2 grayish brown mottling: scattered 10 YR 4/2 dark grayish brown mottles below 225 cm.
Smooth lutte with scattered forans Few way mottles /burrows from 228-233 cm. and 239-241 cm.; few laminations tinged with 10 YR 5/5 yellowish brown at 206 and 216-218 cm. 244-254
CALC 002E
10 YR 5/3 brown
Faint 10 YR 6/4 light yellowish brown mottles
Smooth lutite with scattered forams
G, mottled. Poge 2 of 2 Slightly eilty lutite with common forans Large 2.5 Y 5/2 grayish brown mottle with black flecks from 285-289 cm. Detailed Description B Leg 2 Sta. 273 cm. VISUAL CORE DESCRIPTION CALC DOZE END OF CORE 265-307 20 195-244 Ship KNR Cruise Lithologic L09

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KNR	10m 110	2				SEDIMENT TYPE	CALC 002E	CALC OOZE	CALC 002E	CALC 00ZE	CALC 00ZE	CALC OOZE	CALC 002E	CALC 002E	CALC 002E	CALC 00ZE		
ou bi:	Expedition	Leg No.				VEL	9	18 C	32 C.									
æ	ă	ä				LEVEL	9	18	32	55	130	220	250	260	290	305		



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SMEAR SLIDE DESCRIPTIONS - M.H.Q.I. SEDIMENT CORES

Page 3 of 3

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Page / of /

VISUAL CORE DESCRIPTION

SEDIMENT LEVEL TYPE	23 CALC 002E 35 CALC 002E TR 60 CALC 002E	80 CALC 002E 3					-
PIRST PENETRATION 22-43 CALC COZE 10 YR 5/2 grayish brown grading to 10 YR 6/3 pale brown grading to 10 YR 5/4 yellowish brown Scattered mottling with intercalation Slity lutite with abundant forams grading to common below 33 cm.	43-72 CALC GOZE 10 YR 5/4 yellowish brown with many 10 YR 3/2 and 4/2 dark grayish brown lasinations 5/1ghtly silty lutite with common foress Bark lasinations most heavily concentrated from 43-50 cm.	S. 72-84 CALC DOZE 10 YR 5/3 brown Scattered 10 YR 5/2 grayish brown mottles Thin 10 YR 5/6 silty lemination mightly lithified at 72 cm.	84-121 THIRD PEMETRATION	END OF CORE			
From From From From From From From From		Tago	-				·
	Page 1 Pa	Figst 0-22 First Pertraction 22-43 CALC GOZE 10 TR 5/2 graylah brown grading to 10 TR 6/3 pale brown grading to 10 TR 5/4 yallowlah brown 9-extracted mottling with intercalation 511ty lutite with abundant forame grading to common below 33 cm. 43-72 CALC GOZE 10 TR 5/4 yallowlah brown with many 10 TR 3/2 and 4/2 dark graylah brown with many 10 TR 3/2 and 4/2 dark graylah brown laminations 511ghtly silty lutite with common forams 511ghtly silty lutite with common forams 511ghtly silty lutite with common forams 512 CALC GOZE 60 CALC GOZE 60 CALC GOZE 613-60 60 CALC GOZE 613-60 60 CALC GOZE	Fight 0-22 Flast Penerration 22-43 CLIC COZE 10 TR 5/2 grayish brown grading to 10 YR 6/3 pale 10 TR 5/2 grayish brown grading to 10 YR 6/3 pale 10 TR 5/2 grayish brown grading to 10 YR 6/3 pale 5 common balow 33 cm. 43-72 CLIC COZE 10 TR 5/4 yallowish brown with many 10 YR 3/2 and 4/3 dark grayish brown laminations 5 calc COZE 10 TR 5/4 yallowish brown laminations 5 calc COZE 5 cm. 10 TR 5/3 brown 12-84 CALC COZE 10 TR 5/3 brown 13-84 CALC COZE 10 TR 5/3 brown 13-84 CALC COZE 10 TR 5/3 brown 13-96 10 TR 5/3 brown 13-96 10 TR 5/3 brown 13-96 10 TR 5/3 cm. 13-96 10 TR 5/3 cm. 13-96 10 TR 5/3 cm. 13-96 14-10 cm. 15-84 CALC COZE 15-85 CALC COZE 16-85 CALC COZE 17-84 CALC COZE 16-85 CALC COZE 17-84 CALC COZE 17-84 CALC COZE 18-85 CALC COZE 28-85 Figure 12-43 CALC GOZE 10 TR 3/2 grayish brown greding to 10 TR 6/3 pale 10 TR 3/2 grayish brown greding to 10 TR 6/3 pale 10 TR 3/2 grayish brown with many 10 TR 3/2 and 5/3 CALC GOZE 10 TR 3/4 yallowish brown with many 10 TR 3/2 and 6/3 CALC GOZE 10 TR 3/4 yallowish brown with many 10 TR 3/2 and 6/3 CALC GOZE 10 TR 3/4 yallowish brown with many 10 TR 3/2 and 6/3 CALC GOZE 10 TR 3/4 yallowish brown with many 10 TR 3/2 and 6/3 CALC GOZE 10 TR 3/4 yallowish brown with many 10 TR 3/2 and 6/3 CALC GOZE 11	First Peneraation 22-43 22-40 23-40 24-10 23-40 24-10 23-40 23-40 23-40 24-10 23-40 23-40 24-10 23-40 24-10 23-40 24-10 23-40 24-10 23-40 24-10 23-40 24-10 23-40 24-10 23-40 24-10 23-40 24-10 23-40 24-10 23-40 24-10 23-40 24-10 23-40 24-10 23-40 24-10 23-40 24-10 23-40 24-1	Fight 0-22 12-43. COLG COLE 10 TR 3/4 yillouith brom 11 (10 TR 3/4 yillouith brom 11 (10 TR 3/4 yillouith brom 11 (10 TR 3/4 yillouith brom 11 (10 TR 3/4 yillouith brom 11 (10 TR 3/4 yillouith brom 12 (10 TR 3/4 yillouith brom 13 (10 TR 3/4 yillouith brom 14 (10 TR 3/4 yillouith brom virth many 10 TR 3/2 and 15 (10 TR 3/4 yillouith brom virth many 10 TR 3/2 and 16 (10 TR 3/4 yillouith brom virth many 10 TR 3/2 and 17 (10 TR 3/4 yillouith brom virth many 10 TR 3/2 and 17 (10 TR 3/4 yillouith brom virth many 10 TR 3/2 and 17 (10 TR 3/4 yillouith brom virth many 10 TR 3/2 and 17 (10 TR 3/4 yillouith brom virth many 10 TR 3/2 and 17 (10 TR 3/4 yillouith brom virth many 10 TR 3/2 and 17 (10 TR 3/4 yillouith brom virth many 10 TR 3/2 and 17 (10 TR 3/4 yillouith brom mottles 17 (10 TR 3/4 yillouith brom mottles 18 (10 TR 3/4 yillouith brom mottles Thin 10 TR 3/4 silty lamination slightly lithified 18 (10 TR 3/4 silty lamination slightly lithified 18 (10 TR 3/4 silty lamination slightly lithified 18 (10 TR 3/4 silty lamination slightly lithified 19 (10 TR 3/4 silty lamination slightly lithified	Figure 0.22 22-43 23-50 23-	

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ESTIMATED ABUNDANCES (%)

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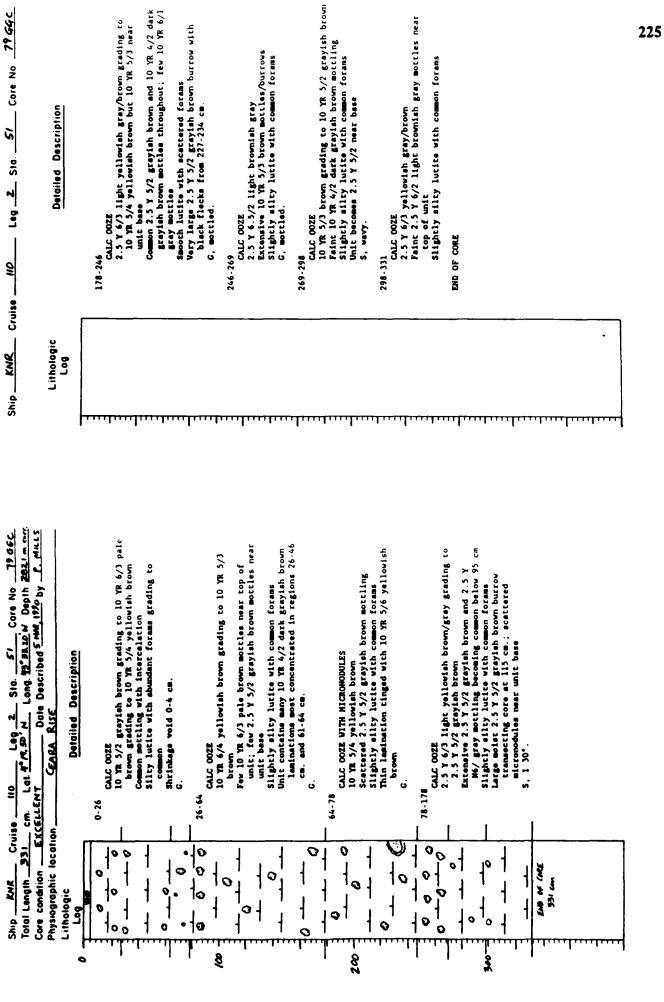
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VISUAL CORE DESCRIPTION

Page 1 of

SMEAR SLIDE DESCRIPTIONS - M.H.O.I. SEDIMENT CORES

CORE DESCRIPTION	Cruise NO Leg 2 Sta. 51 Core No 10-PC Com. Lat. 4' 212 Nd Long 43' 10-3 dd Depth 2826 Md Com. Lat. 4' 212 Nd Long 43' 10-3 dd Depth 2826 Md Com. Lat. 4' 212 Nd Long 43' 10-3 dd Depth 2826 Md Com. Lat. 4' 212 Nd Long 43' 10-3 dd Depth 28 dd De	0.33		Tellowish brown (10 TR 5/4) Paint (10 YR 4/1) dark gray streaks	33-180 G. CALC COZE Brown (10 YR 5/3) Unit fades gradually from brown to very pale brown (20 YR 7/3) 70-94 cm. 6 160-171 cm.; faint dark gray streaks throughout; unit ends in dark	brown (10 YR 4/3) streak Smooth lutite with few forams; scattered forams	70-94 cm; allry lutire 148-180 cm. S.		180-228		bottom is light olive brown (2.5 ¥ 5/4)	Smooth tutite with tew torans.	228-385 CALC DOZE	Light olive brown (2.5 Y 5/4)	fades gradually to pale brown (10 YR 6/3) 340-	383 cm.; Kaint dark gray mottles throughout Smooth, firm lutite with very few forams	787 582	3ZOO OTVO	Unit contains 3 very pale brown (10 YR 7/4)	sections at 385-404, 438-450 and 495-506 cm interspersed with brown and pale brown, unit	changes gradually to light yellowish brown (2.5 Y 6/4) 520-584 cm.	Smooth, firm lutite; very pale brown sections have abundant forams	ý	_
VISUAL CC	Ship Voor Total Length 2013 Core condition Physiographic loc Lithologic Log		1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 2	1 1 1 1 1 1 1	1 1 0	1 1 1	1 1 1	니_ 익_ ''''	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	+ + ,+ -	0 1 1 1 1 1 1	4	+ + +-	1 1 1 1 2 2	+ <u>-</u> + <u>-</u>	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		 3
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SHEAR SLIDE DESCRIPTIONS - M.H.O.I. SEDIMENT CORES	Ship: KAR Expedition 110	6.			SEDIMENT	CALC 002E	CALC 002E	CALC 002E	CALC GOZE W/	CALC DOZE	CALC 00ZE	CALC 002E	CALC 002E	CALC 002E	CALC 002E									
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Ship: KNR Expedition 110	lo				SEDIMENT	TYPE		CALC DOZE	CALC 002E	CALC DOZE	CALC 002E	CALC 00ZE	CALC 00ZE	CALC OOZE	CALC 002E	CALC 002E	CALC 002E	CALC 00ZE	CALC GOZE	CALC 00ZE	CALC QOZE	CALC. 00ZE	CALC 00ZE	CALC 002E	•
Ship: _ Expedi	Leg No.				į	וו		31	09	166	187	213	777	350	396	502	582	165	069	740	157	197	803	888	
Detailed Description		584-657 CAT C 0028	YR 5/3)		ell-65/ cm.; common dark gray mottles 584-606	Smooth, firm lutite with very few forems G.		Pale brown (10 YR 6/3) Unit fades also very pale brown (10 YR 8/3) at	5mooth, firm lutite with very few forams	750-798	CALC 002E Very pale brown (10 YR 7/3) into vellowish brown	(10 YR 5/6) Unit changes color at 785 cm.; several dark gray			798-917	- CALC 002E Light olive brown (2.5 % 5/4)	3 -	Smooth lutite with acattered forans	END OF CORE			ł			
1	T - + - + T 35	284-657	YR 5/3)	_	CB.; comon dark gray mottles 584.606	What is a smooth, firm butite with very few forens	ALC 00ZE	Unit fade into very pale brown (10 TR 8/3) at	Smooth, firm lutite with very few forans	250.798	No. 1 L. 1. CALC COZE	(10 YR 5/6) Unit changes color at 785 cm.: several dark grav	streaks at 777-783 & 789 cm. 6 at end of unit	section is smoot	798-917	A 1 CALC COZE	Unit changes gradually to brown (10 YR 5/3) at 850		T T T T	\$\frac{1}{2}\$					

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SMEAR SLIDE DESCRIPTIONS - M.H.O.1. SEDIMENT CORES

Poge 2 of 2

VISUAL CORE DESCRIPTION

Core No. 80PL

Leg 3 - Sto. 51

Cruise ND

Ship Krore

Biogenous Material

Cruise 110 Leg 2 Sto. 51 Core No 80 Pb cm. Lat 4 21.3 N Long 43 21.3 N Depth 21.2 b coold Date Described 6 50 19 Strat At		O-24 CALC GOZE Pale brown (10 YR 6/3) Top 8 ca. of core is light brownish gray (10 YR 6/2) which fades into pale brown Silty lutite with abundant foreas Void in core at 2-7 cm.	24-75 CALC GOZE Yellown (10 YR 5/6) Common-axtensive dark gray (10 YR 4/1) atreaks 34-48 cm.; unit is light yellowish brown (10 YR 4/1) atreaks 34-48 cm.; unit is light yellowish brown (10 YR 6/4) 24-32 cm. Smooth, moist lutite with few forems. S.	75-91 CALC COZE Light olive brown (2.5 N 5/4) Few faint gray (2.5 Y N5/) streaks at 75, 77, and 82 caint gray (2.5 Y N5/) streaks at 75, 77, and 82 cooth, moist lutite with few forams 5.	91-111 The rest of the core is identical to the first two units of the core, suggesting that the core penetrated more than once.	END OF CORE	
Ship Kover Cruise Total Length III Co Core condition Sook	Lithologic Log	1 1 <td>3</td> <td></td> <td></td> <td></td> <td></td>	3				
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KNR	ftlon 110	02				SEDIMENT	TYPE	CALC DOZE	CALC 00ZE	CALC 00ZE	CALC 002E	CALC 002E	CALC 00ZE	CALC 00ZE	CALC 002E	CALC 00ZE	CALC 002E	CALC 002E						
Sh1p:	Expedition	Leg No.				137.3		6	20	31	42	55	82	85	92	96	103	106						

Expedition Line	SEDIWENT TYPE ALC GOZE TRACOZE ALC GOZE TRACOZE SEDIMENT NLC GOZE ALC GOZE TYPE ALC GOZE TR Detritel Silt & Sand Solites Zeolites Loodenic 1 Volcanic	SEDIMENT NLC GOZE ALC GOZE TYPE ALC GOZE TR Detritel Silt & Sand Solites Zeolites Loodenic 1 Volcanic	One No. Station No.	One No. Station No.	One No. Station No.	On No. Station No. Sta	
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SMEAR SLIDE DESCRIPTIONS - M.H.O.I. SEDIMENT CORES

Page 1 of 1

CORES
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DESCRIPTIONS
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SHEAR

Lat #222 Long #2222 W Depth 28/6m.

Lat #222 Long #2222 W Depth 28/6m.

Date Described 3/24/80 by 2/4/15

Detailed Description

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Physiographic location Clara Rice.

Lithologic

Ship Knorr Cruise III. Total Length 340 gm., L Core condition excellent

Ship Lnorr

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VISUAL CORE DESCRIPTION

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CALC CLAY INTO HIGHLY CALC CLAY INTO CALC OOZE 10YR 6/4 light yellow/sh brown with slightly lighter colored regions scattered sortling throughout throughout thin, \$\infty\$ i.m. thick, 7.5YR 5/6 strong brown zone, at 78 cm. transition zone

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END OF CORE ...

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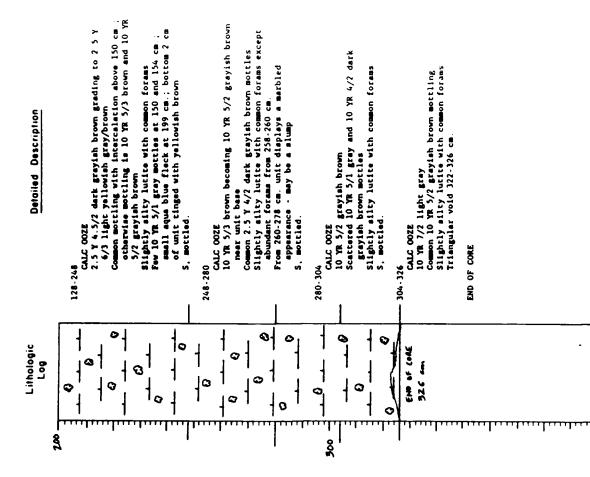
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HIGHLY CALC CLAY

10YR 6/3 pale brown into 7.5YR 5/4 dark brown
into 10YR 5/8 yellowish brown
faint to acattered mottling downcore
lutite with abundant forams to common forams
5, incline 10*

Ship KANK Cruise Lithologic Log 200 200 200 200 218-		300	
Cruise NO Leg 2 Sto 63 Core No 63 666 Excellent Date Described (NMC, 670 by P, MLLS) CALC OOZE 10 YR 5/2 graylah brown grading to 10 YR 6/3 pale brown grading to 10 YR 5/3 dark graylah brown scales near top 511cy lutte with abundant forans grading to compon	ahrinkage void 0-4 cm. 6. 23.39 CALC OOZE WITH MICHONODULES 10 YR 5/4 yellowish brown Heavity mottled with 10 YR 4/2 dark grayish brown and 10 YR 6/3 pale brown Slightly slift y lutite with common forans Some color changes appear to be laminar S.	39-52 CALC DOZE 10 YR 5/3 brown changing to 10 YR 6/4 light yellowish brown at 44 cm. Scartered motifuling with intercelation \$lightly silty lutte with common forms 1 mm thick elightly lithified layers at 39 cm. 48 cm. surrounding lutte tinged with 10 YR 5/6 yellowish brown: .5 cm thick lemination tinged with 10 YR 5/6 yellowish brown at 50 cm.	CALC GOZE CALC GOZE 10 YM 5/2.5 grayish brown grading to 10 YR 6/4 14ght yellowish brown Extensive 2.5 Y 5/2 grayish brown and 10 YR 5/3 brown mottling above 107 cm. \$lightly silty lutite with common forems becoming abundant from 90.107 cm. Few regions tinged with 10 YR 5/6 yellowish brown most notably 58-67 cm., 122-128 cm.
Ship KNR Cruise Total Length 326 c Core condition EXCE Physiographic location Lithologic Log		0 1 0 1 1	



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VISUAL CORE DESCRIPTION

SHEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDINENT CORES

Page 1 of 1

Cruise III Leg Z Sta Core No 84 BC EXCELLENT Date Described we fight by P. Millif. Grion CEARA Rise Detailed Description		Statute and solding with abundant forest and pteropode END OF CORE																			
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ftion tin		SEDIMENT TYPE	CALC 002E	CALC OOZE W/	CALC 002E	CALC 002E	CALC 00ZE	CALC 002E	CALC 002E	CALC 002E											
Ship: Expedition Leg No.		ונאנו	9	30	45	100	175	254	290	320											

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES.

Lat. 4" 25.05 Long 21. 3. 25 "Depth	Ceura Rise Doscribed Miller by Mail.	7011000	Description	0-17 CALC 00ZE	10YR 6/4 light yellowish brown	Common mottling	17-54 HIGHLY CALC CLAY 10 YR 4/4 dark yellowish brown with lighter regions throughout	Lutite with common forams extensively intercalated throughout section c hostoners	1840021 VOI (C		common mottling	10YR 5/8 gellowish brown indurated layers at	54, 59-50, 50, 154, 208-209, 229-230, 508, and 311 cm.	END OF CORE											
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VISUAL CORE DESCRIPTION OIR Cruise 110 Leg 2 Sto. Core No 96 BC.	CELLENT Dote Described & MAR FRIE DY -	Detailed Description	0.36 CALC 002E		Scattered to combon 10 YR 4/2 dark grayish brown mottles and intercalations Slightly slitty lutite with abundant forans and common percepts Pteropod concentrations from 18-25 cm			1																
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SMEAR SLIDE DESCRIPTIONS - M.H.O.I. SEDIMENT CORES	Ship: Knorr Expedition 110	2			SEDIMENT TYPE	calc oose	highly calc	:	:	:	calc ooze													
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Page 1 of 2

CECELLENT Date Described TMM 1990 by P. MILLS Hond CEARA RISE			2.54 CALC 002E	10 YR 5/2 grayfah brown grading to 10 YR 6/3 pale	Defer moreling to 10 MR 3/4 yellowish brown Defer moreling with interceletion of major colors	Silty lutte with abundant forams grading to common Shrinkage void 0-3 cm.	3 ≍	brown laminations Few faint 2.5 Y 5/2 grayish brown mottles below 34	cm. Slightly silty lutite with common forans	Laminations are most heavily concentrated from 24.	بن ا	50-191 Calc ooze	2.5 Y 6/3 light yellowish gray/brown Common to extensive mottling throughout primarily	2.5 Y 5/2 and 2.5 Y 4/2 grayish brown, from 133	YR 5/2 email grayish brown mottles Slightly silty lutite with common forans	Several thin 10 YR 5/6 landnes occur throughout most notably at 65, 113, 130 cm. very cility 10	YR 5/6 yellowish brown layer from 54.56 cm , void 105-108 cm .	Ġ	191-229 Calc 002E	10 YR 5.5/4 light yellowish brown Common 10 YR 4/2 dark grayish brown mottling	except extensive from 200-208 cm. Slightly silty lutite with common forens	Very thin 10 YR 5/6 yellowish brown lamination at 226 cm.; void 210-215 cm.	·			
Ship KNR Cruise Total Length 315 cm. Core condition £XCE1	Lithologic	Log	1 1 1 1	•	0 .	0 0 0	0	1]0	, •	의 장	G) 	» Տ	ا ا د	тү .	0	Marie of Cold			7111	, , , , , , , , , , , , , , , , , , ,	···	····	***	٠٠٠٠
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RIPTION	HO Leg & Sta. 33 Core No Pr age	Detailed Description	6,00	1200 OTE	10 VR 3/3 brown Pursuity 2 5 V 4/2 dark gravish brown mottling	Smooth lutite with common forans Large 10 YR 4/2 mottle at 247 cm.; very thin 2.5 Y H3/ very dark gray lamination at 250 cm. G, mottled.	260-275 CALC GOZE 10 YE 5/2 graylah brown Common 10 YE 5/3 brown and 2.5 Y 6/2 light	brownish gray mottles Slightly silty lutite with common forams	G, mottled.	275-292 CALC 00ZE	2.5 T 6/2 light brownish gray Common 10 YR 5/2 grayish brown mottles	large 10 YR 3/2 very dark grayish brown mottle at	G, mottled.	292-315	CALC UCCE. 10 YR 5/3 brown 10 YR 5/3 brown 10 YR 5/3 brown 10 YR 5/3 brown	THE 4.2 BOLLING THE TOTAL THE TOTAL THE TOTAL THE TOTAL THE TOTAL THE TOTAL THE TOTAL TOTA	Triangular void from 312-315 cm.	Ein of cont					
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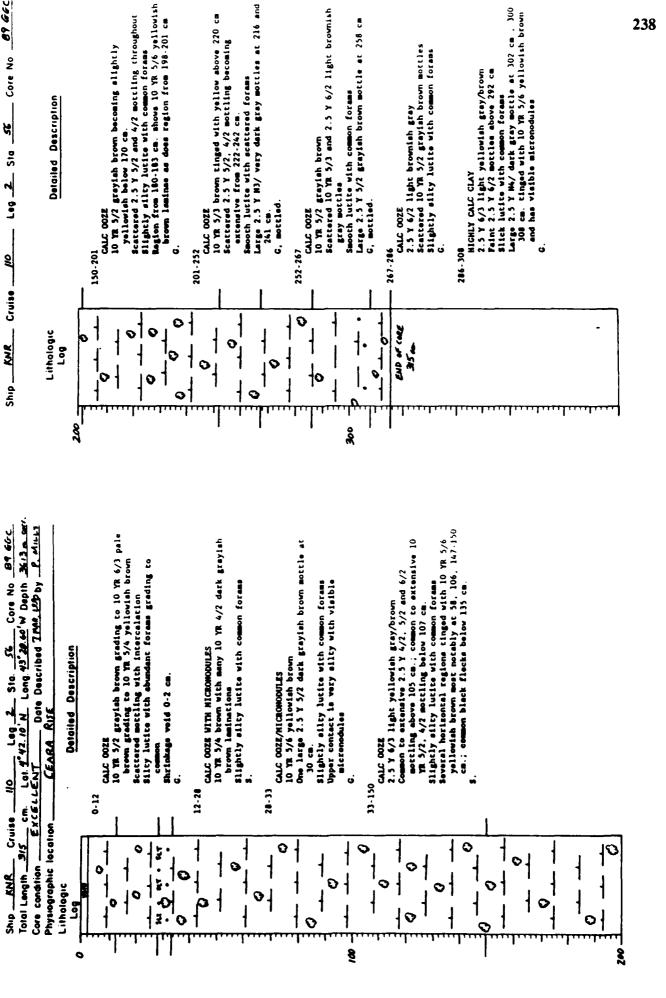
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Total Length 30 c Care condition EXX Physiographic location— Lithologic Log			1200 J.	LC 002E YR 5/2 grayish brown grading to 10 YR 6/3 pals brown grading to 10 YR 5/4 yellowish brown	ME 5/2 grayish brown grading to 10 YR 6/3 pale brown grading to 10 YR 5/4 pallowish brown brown gratered but faint mottling with intercelation silty lutite with abundant forams and pracepod gloss of pteropod and at 11-17 cm. and 20-25 cm.	ME 5/2 grayish brown grading to 10 YR 6/3 pale brown grading to 10 YR 5/4 spilouish brown brown grating with intercelation silty luttle with abundant forase and praropod glone of pteropod and at 11-17 cm. and 20-25 cm.	IC 002E TR 5/2 grayish brown grading to 10 YR 6/3 pale brown grading to 10 YR 5/4 yellowish brown strend but faint metaling with intercalation Silty lutite with abundant forams and ptaropods gions of ptaropod and at 11.17 cm. and 20.25 cm.	If 002E W 5/2 grayish brown grading to 10 W 6/3 pale brown grading to 10 M 5/4 yellowish brown streams grading with intercalation silty lutite with abundant forams and ptaropods gleene of ptaropod sand at 11.17 cm. and 20.25 cm.	TE 002E TR 5/2 grayish brown grading to 10 YR 6/3 pale brown grading to 10 YR 5/4 yellowish brown mattered but faint mottling with intercalation Silty lutite with abundant forams and ptaropods gions of ptaropod aand at 11-17 cm. and 20-25 cm.	If 002E W 5/2 grayish brown grading to 10 YR 6/3 pale brown grading to 10 YR 5/4 yellowish brown streams grading with intercalation silty lutite with abundant forams and pteropods glone of pteropod aand at 11.17 cm. and 20.25 cm.	If 002E TR 5/2 grayish brown grading to 10 YR 6/3 pale brown grading to 10 YR 5/4 yellowish brown attered but faint mettling with intercalation Silty lutite with abundant forams and ptaropole gions of ptaropod aand at 11.17 cm. and 20.25 cm.	If 002E W 5/2 grayish brown grading to 10 YR 6/3 pale brown grading to 10 YR 5/4 yellowish brown stread but faint mottling with intercalation silty lutite with abundant forame and pteropoda glone of pteropod aand at 11.17 cm. and 20.25 cm.	ME 5/2 grayish brown grading to 10 YR 6/3 paids with the control of the state of the control of the state of	ME 5/2 grayish brown grading to 10 YR 6/3 pal brown grading to 10 YR 5/4 yallowish brown artered but faint mottling with intercalation silty lutite with abundant forams and pteropod glees of pteropod sand at 11-17 cm. and 20-25 cm.	If 002K TR 5/2 grayish brown grading to 10 YR 6/3 pale brown grading to 10 YR 5/4 yellowish brown gratered but faint mettling with intercalation silty lutite with abundant forame and pteropodagions of pteropod aand at 11.17 cm. and 20.25 cm.	We so that the state of the sta	TE 002E TH 3/2 grayish brown grading to 10 YR 6/3 pale brown grading to 10 YR 5/4 yellowish brown attered but faint mettling with intercalation filty lutite with abundant forams and pteropods gions of pteropod aand at 11.17 cm. and 20.25 cm.	TE 002E TR 5/2 grayish brown grading to 10 YR 6/3 pale brown grading to 10 YR 5/4 yellowish brown attered but faint mottling with intercalation silty lutite with abundant forase and preropods giese of pteropod sand at 11-17 cm. and 20-25 cm.	We say the brown grading to 10 YR 6/3 pale brown grading to 10 YR 5/4 yellowish brown statered but faint mettling with intercalation silty lutite with abundant forame and pteropods gions of pteropod and at 11.17 cm. and 20.25 cm.	TR 3/2 grayish brown grading to 10 YR 6/3 pale brown grading to 10 YR 5/4 yellowish brown astered but faint mottling with intercalation silty lutite with abundant foreas and percopods giese of pteropod sand at 11.17 cm. and 20.25 cm.	TK 5/2 grayish brown grading to 10 YR 6/3 pale brown grading to 10 YR 5/4 yellowish brown attered but faint mottling with intercalation silty lutite with abundant forase and pteropods gleen of pteropod aand at 11-17 cm. and 20-25 cm.	If 002E The 3/2 graylah brown grading to 10 YR 6/3 paintered but faint mottling with intercalation slity lutite with abundant forams and pteropogless of pteropod aand at 11-17 cm. and 20-25 cm.

SHEAR SLIDE DESCRIPTIONS - M.H.O.I. SEDINENT CORES

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Detailed Description Expectation ALC 0022 3. Y 6/2 light browntah gray 1. Gray light brown settling 1. gray and brown settling 1. gray lightly allty latter with common forces 1.	۱ <u>۱</u>					SEDIMENT	TYPE		CALC 00ZE	CALC GOZE W/	CALC GOZE/	CALC GOZE	CALC OOZE W/	CALC GOZE	CALC 002E	CALC 002E	CALC 00ZE	HICHLY CALC	CALC 002E					
Obstailed Description CALC CORE CALC CORE 7.3 Y 6/2 light brownish gray 7.3 Y 6/2 grayish brown metting Sightly silty lutite with common forcase BND OF CORE.		Z												1	ď	09	9,	1	3					
	улір: Ехреф	Leg						_	3	20	31	02	140	7.7.	23	7	3.2	57	π					

SHEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Ship KNR Cruise No Leg 2 Sto. 50 Core No. 89 666

VISUAL CORE DESCRIPTION

Poge 3 of 3

Page 1 of 1	To 2 Sig. 56 Core No 90 BC. Date Described 3 Med 1718 by P. MILLS. Detailed Description	CALC GOZE 10 TB 5/2 grayish brown grading to 10 TB 6/3 pale brown grading to 10 YB 5/4 yellowish brown Sectioned section with intercalation	Slightly silty lutite with sbundant foress and common pteropeds													
	Ship: Expedition Leg No.		LEVEL	-	33							-				
SIEAR SI	<u>8</u>		SEDIMENT TYPE	CALC 002E	CALC 002E											
SMEAR SLIDE DESCRIPTIONS - M.H.O.I. SEDIMENT CORES		Inor	fathtad antang		٤											
RIPTION		Inorganic Material Silt & Sand	Micronodules	,						\dashv			 \Box			
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0.1. SE	Core No. 90 s Station No. Total Core Length	IMATEO	Clay	30 25	07		 								<u> </u>	
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CORES		ESTIMATED ABUNDANCES (\$) A) Biogenous Material Calcareous	spodova39]				 								
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	5	Siliceous	einstoibs8		¥		 <u> </u>	 	 	 			 -			

VISUAL CORE DESCRIPTION Page 2 of 2	Details	334-364 HIGHLY CALC CLAY LOYR 5/4 yellowish brown extensive mottling from 337-340 cm; remainder if faintly mottled smooth luttee with common foraus 334-337 cm; 7.5YR 5/8 strong brown unit; upper- most 0.25 cm. semi-indurated	END OF CORE			
VISUAL CC	Lithologic Log	ուսիսովուսյո	ախուսիուսի	mponionalama		
Poge01	Let Ext. Long 17/2/1/V Depth 19/0 Let Rice. Date Described 4/29/12 by DAYA Detailed Description	CALC GOZE 10TR 6/4 light yellowish brown bestrated mottling of 10TR 5/1 gray material latite with abundant forams some shrinkage G	CALC COZE 10TR 5/6 yellowish brown feath motting emooth lutite with common forame c HICHLY CALC CLAY 10TR 5/6 yellowish brown	rant morting, but the with common forms exceeds the seasoth lutite with common forms extensive to common intercalations throughout S, horizontal S, horizontal S, horizontal CALC GOZE INTO CALC CLAY 10TR 5/4 yallowish brown with some variation downcore downcore common materials of 10TR 5/3 brown material throughout smooth lutite with common forms 53-56 cm - 7.5TR 5/8 strong brown unit with 2	semi-indurated layers within area; other strong brown layers at 175 cm, 207 cm, 235 cm, 331 cm. MICHLY CALC CLAY HOTH 6/3 pale brown darkens below 225 cm. secutored mottling from 293-308 cm, faint below that emooth lutite with forams decreasing from common to meattered below approximately 315 cm. 330-331 cm. faint 7.578 5/8 strong brown unit 8, horizontal	
윑	7 M			53-281	281-334 E	

SIEAR SLIDE DESCRIPTIONS - N.H.O.I. SEDINENT CORES

Page 1_01_1.

Ship Kulk Cruise 110 Leg 2 Sto. Core No 92.8C. Total Length 30 cm. Lat 4.4.37 M Long 11:16.59 M Depth 3002.cm. Core condition 6xCELLENT Date Described 2 Mark 170. by f. Mills Physiographic location CEAM Kirg Detailed Description Lithologic Detailed Description	1010																			•
Ship Kalk Total Length Core condition Physiographic Lithologic Log			9	***1	Tri	h.	بليت		l	ılıı	. ال	***	,,,,	·Ψ	TTTT	7117	т.		<u>.1</u>	*****
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CORES
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DESCRIPTIONS
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Page / of 2

Cruise 110 Leg 2 Sta 50 Core No 79 66C. Con. Lat 4'51.25' N Long 12'8 55' W Depth 1856 marr. GOOD Date Described 8MM, 1270 by P. MILLS. Cotton Good Assertation	O-21 CALC 002E 10 TR 5/2 graylah brown grading to 10 YR 6/3 pale	brown grading to 10 M 5/4 yellowish brown Scattered mottling with interceletion Silty lutite with abundant forese grading to common Bhrinkage wold 0-5 cm. G. C. C. C. CALC GOZE	10 TR 5/3 brown with many 10 TR 4/2 dark grayish brown laminations	FABRE 10 IR e/3 motties above to tm.; scattered 2.5 % 5/5 grayish brown mottles below 45 cm. Eliabile 41 pt. Infer with common forms	Dark laminations most concentrated from 21-31 cm. and 37-64 cm.	57-58	John Walter Inference of the Community o	s	58-208	2.5 Y 6/3 light yellowish gray/brown Extensive 2.5 Y 5/2 grayish brown and 2.5 Y 4/2	dark graylah brown mettling above 160 cm.; extensive 10 TR 4/2 dark graylah brown mettling halom 160 cm	Slightly allty lutite with common forans Several horizontal leminations tinged with 10 YR		i				
Ship KNK Cruise Total Length Ber Core condition GD Physiographic location Lithologic Log	1	0 0 0		16	1.	0 0 0	0	-	+ +	0 1	+ +0+		END OF CHEE	e R				•
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KMR 110		SEDIMENT TYPE	CALC 00ZE	CALC 002E														
Ship:Expedition Leg No		TEMET	-	29														

Poge 2 of 2 Core No #9 66C Leg & Sto. 50 VISUAL CORE DESCRIPTION 5 Ship KNK Cruise

Lithologic

Detailed Description

CALC CLAY WITH MICHOROULES

O'RE 3/4 yellewish brown
Abundant 2.9 Y 4/2 dark grayish brown
mattles/burrews, many large
Baseth meist lutite with few forms
Very large burrew at 247-250 cm. with common
forms G, Mottled. 204-251

10 TR 5/2 graylah brown Few 10 TR 4/2 dark graylah brown mottles Slightly silty lutite with scattered foress G, mottled. CALC GOZE 251-267

2.5 Y 6/2 light brownish gray Few 10 YR 5/2 grayish brown mottles Smooth lutite with common forans Large 10 YR 5/2 burrow from 268-271 cm. CALC DOZE 267.286

10 TR 6/3 light belowish brown grading to 10 YR 6/2 light brownlah gray

For 2.5 Y 6/2 mottles above 296 cm.; for 10 YR 4/2
mottles below 110 cm.

Slightly salty luttle with common forms

Two 10 TR 5/6 yellowish brown lasinations at 299
and 306 cm.; triangular void from 355-361 cm. CALC 00ZE 286-361

END OF CORE.

CORES	
SEDIMENT	
- W.H.O.1.	
SHEAR SLIDE DESCRIPTIONS .	
SPEAR SLIDE	

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KNR	Expedition 110	lo				SEDIMENT TYPE	CALC 002E	CALC 002E	CALC OOZE / MICRONODULES	CALC 002E	CALC DOZE	CALC CLAY W/	CALC DOZE	CALC 00ZE	CALC OUZE	CALC OOZE							
Shtp:	Exped	Leg No.				LEVEL	6	07	57	120	200	234	260	275	320	253							
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SPEAR SLIDE DESCRIPTIONS - N.H.O.I. SEDIMENT CORES

Page 1 of 1

__ Core No __ 95 44C 5 Page 2 Leg 2 S10 59 VISUAL CORE DESCRIPTION Ship Kelk Cruise No

Ship KNK Cruise No Leg 2 Sie. 67 Core No 15 GFC.
Total Length 288 cm. Lat. 4.33.12 N. Long 10'4:75 N Depth 4260 min.

EXCELLENT

Core condition _

Dote Described (2 miles) by f. miles

VISUAL CORE DESCRIPTION

Detailed Description

near unit base Common 10 YR 4/2 dark grayish brown mottling above 220 cm ; scattered 10 YR 6/2 light brownish gray 10 TR 5/4 pellowish brown and 10 TR 3/2 very dark grayish brown Extensive 10 TR 6/4 light yellowish brown mottling 10 YR 5.5/4 light yellowish brown becoming lighter Large 10 YR 6/3 mottle with abundant forams at 272 Slightly silty lutite with common forans becoming abundant below 254 cm. 10 YR 5/3 brown grading to 10 YR 5/4 Common 10 YR 3/2 very dark grayleh brown mottling becoming extensive from 302-315 cm. Smooth lutite with common forame few 10 YR 6/2 light brownish gray mottles from 10 YR 5/3 brown Extensive 2.5 Y 4/2 dark grayish brown mottling; Slightly silty lutite with common forans Large 2.5 Y 4/2 mottles at 333-336 cm throughout Smooth lutite with common forans CALC DOZE VITH MICROMODULES mottles 230-242 cm. 347-352 cm. S, mottled. G, mottled. G, mottled CALC GOZE CALC GOZE CALC BOZE

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SPEAR SLIDE DESCRIPTIONS - M.H.O.I. SEDIMENT CORES					Inor	festraso grates	-			01	,	2	-	-	3	•	-								
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CORE DESCRIPTION	Cruise No Leg & Sie. Sy Core No 95 GGC	Detailed Description		360-377	10 M 5/3 brown 10 W 5/3 brown Brownell A 2 16 brown Brownell A 3 16 brown Brownell A 3	utth common for any of tight browning gray setting brown mettles above 371 cm. Baseth lutite with few forems G. CALC 002E 10 TR 6/3 pale brown	Few 10 YR 5/3 brown mottles Silty lutite with abundant forams	the of cour.																	
VISUAL C	20	Lithologic Log																							

Page 1 of 1

59 Core No 96 BC. 12:51.56 W Depth 4427 m.ccr. ribed 12 part 176 by R min45	ling to 10 YR 6/3 pale ling to 10 YR 6/3 pale ling to 10 YR 5/4 yellowish brown 4/2 dark grayish brown mottles above mon 10 YR 6/3 pale brown mottles below 10 YR 6/3 pale brown mottles below ty lutite with abundant forans from burrows at 21, 25 cm. TH DETRITUS FR 941boish brown mottles FR 6/3 pale brown mottles FR 6/3 pale brown mottles FR 6/3 pale brown mottles FR 6/3 pale brown mottles FR 6/3 pale brown mottles FR 6/3 pale brown mottles FR 6/3 pale brown mottles FR 6/3 pale brown mottles FR 6/3 pale brown mottles FR 6/3 pale brown mottles FR 6/3 pale brown mottles FR 6/3 pale brown mottles	
cm Lat #52.10 N Long ELLENT Date Description	CALC COZE 10 TR 5/2 grayish brown grading to 10 TR 6/3 pale brown grading to 10 TR 5/4 yellowish brown Common 10 TR 4/2 dark grayish brown mottles above 20 cm; common 10 TR 6/3 pale brown mottles below 17 cm. Slightly silty lutite with abundant forms Large pale brown burrows at 21, 25 cm. 8, mottled. 26-30 CALC COZE WITH DETRITUS 10 TR 4/4 dark yellowish brown Scattered 10 TR 6/3 pale brown mottles Smooth lutite with common forms Mottles contain abundant forms HTD 0F COME	
Ship KNR Cruise Total Length 30 Core condition EXC Physiographic location Lithologic Log		համադադադադադուդուդուդուդուդուդ

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3	1¢fon110			SEDIMENT TYPE	CALC 00ZE	CALC 00ZE	CALC 00ZE								
Shtp:	Expedition Leg No.			IEVEL	1	25	29								

Cruise 110 Leg 2 Sta. 60 Core No 97 66C	CALC GOZE CALC GOZE Referring 2. 5. Y 4/2 dark greyish brown mottling Baseth lutites with scattered foreas Bagion from 134-136 cm. tinged with 10 YR 4/6 dark yellowish brown and contains few visible aftermedalss G. 161-168 Sildeniah brown and contains few visible aftermedalss C. 161-168 Sildeniah brown and contains few visible G. 161-168 Sildeniah brown Smooth mains few 2. 5 Y 4/4 olive brown Smooth mains lutite Unit contains few 2. 5 Y 4/4 olive brown Laminations concentrated near basal contact J. S. Y 4.5/2 dark grayish brown Smooth lutite becoming very silty near base of unit 173-193 G.AC GOZE G.A.C GOZE G.A.C GOZE G.A.C GOZE G.A.C GOZE G.A.C GOZE G.A.C GOZE G.A.C GOZE G.A.C GOZE G.A.C GOZE G.A.C GOZE J. Y. J.Z grayish brown Strayish blive brown Scrietered faint 2. 5 Y 4/2 dark grayish brown mottless Smooth lutite with scattered foreas above 186 cm. S. Y 4.5/2 dark grayish brown Slick but ensewhat silty lutite Very uniform throughout but slightly siltier near unit base S. Y 4/1 dark gray Silt S. Itragular S. Itragular S. Itragular S. Itragular S. Itragular S. Itragular S. S. Itragular S. Itragular S. S. S. S. S. S. S. S. S. S
47 Gec Ship Kork	3 brown # 4/1 grading cm. cm. trk try try try try try try try try try try
Ship KNK Cruise 110 Leg 2 Sto 60 Core No Total Length 21 Core No Total Length 21 Core No Core No Core Core condition 21 Core LENT Dote Described 12 PM 1879 by Physiographic location CEARA RISE Linhologic Description	13-21 10. The 3/2 graylah brown grading to 10 Th 3/3 b grading to 10 Th 3/4 graylah brown Philing with Intercalation; few 10 Th 4/2 with gray sattles from 5.10 cm. 11. The second of the 3/4 yillowith brown grading from 5.10 cm. 13-21 21-21 21
Ship KN Tofol Lengi Core condi Physiograph Lithologic	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

VISUAL CORE DESCRIPTION

VISUAL CORE DESCRIPTION

Poge_2_ of_3

Poge 3 of 5 VISUAL CORE DESCRIPTION

SMEAR SLIDE DESCRIPTIONS - W.H.O.1. SEDIMENT CORES

Core No 97 GGC Leg 2 Sto. 60 Ship Kolk Cruise 110

Lithologic S

Detailed Description

2.5 Y 4.5/2 dark graylah brown Scattered 3 Y 4/1 dark gray mottles becoming extensive below 235 cm. Smooth lutite with fine silt Dark gray lamination at unit base BLIGHTLY CALC CLAY/DETRITUS 222-241

241-289

HIGHLY CALC CLAY WITH DETRITUS
Alternating 2.5 Y 5/2 grayish brown and 2.5 Y 6/2
Light brownish gray regions but becoming 2.5 Y
4/2 from 270-278 cm.
Extensive 2.5 Y 4/2 dark grayish brown and 2.5 Y
&/4 olive brown mottling

Slightly silty lutite with scattered to common

Unit contains few 2.5 Y 4/4 leminations at 268-271 cm. and 288-289 cm.

289-324

2.5 Y 5/3 graylah oliva brown
Extensive 2.5 Y 4/2 dark graylah brown mottling
becoming common below 313 cm.
Extensive 298-305 cm. contains three 10 YR 4/6
dark yellowish brown leminations with some silty UNFOSS CLAY WITH DETRITUS

324-335

2.5 Y 5/2 grayish brown Common 2.5 Y 4/2 mottles Smooth lutite with few forems Round 5 Y 3/1 very dark gray mottle at 328 cm. UNFOSS CLAY WITH DETRITUS

335-341

2.5 Y 5/2 grading to 2.5 Y 6/2 light brownish gray Common mottling with intercalation Smooth lutite with forams increasing from few to Large 2.5 Y 4/2 mottle at 340 cm. scattered CALC 002E

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CLAY W/DETRITE
UNFOSS CLAY
W/ DETRITUS

305 329 릙

UNFOSS CLAY WINETRITUS CALC 00ZE

CLAY / DETRITUS HIGHLY CALC

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END OF CORE.

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1t1on 110	02			SEDIMENT TYPE	CALC 00ZE	CALC OOZE W/	MICRONODULES	UNFOSS CLAY/ DETRITUS	UNFOSS CLAY/	MICRONODULES	CALC GOZE	CALC 002E	SLIGHTLY CALC	CALC CLAY/ DETRITUS	CALC 002E	SLIGHTLY CALC	DETRITUS	SLIGHTLY CALC
Exped	Leg N			LEVEL	7	18		22	24		70	148	165	173	185	207	221	77.
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MAINE by P. MILLS Ship: K. Expedition	Leg No. 2	•	SEDIMENT TYPE TYPE	2 CALC UOZE	29 CALC 00ZE									
MAIN by P. MILLS	L	•	TEVEL	2	29						 1			
F F		•			-	_								
Core condition <u>EXCELLENT</u> Dete Described IZE Physiographic location <u>CEARA RISE</u> Lithologic Log	0-31 CALC 00ZE	10 W 5/2 graylah brown grading to 10 W 6/3 pale brown grading to 10 W 5/4 yellouish brown	and burrows Slightly slity lutite with abundant foress 0-1 cm. void END OF CORE		1									

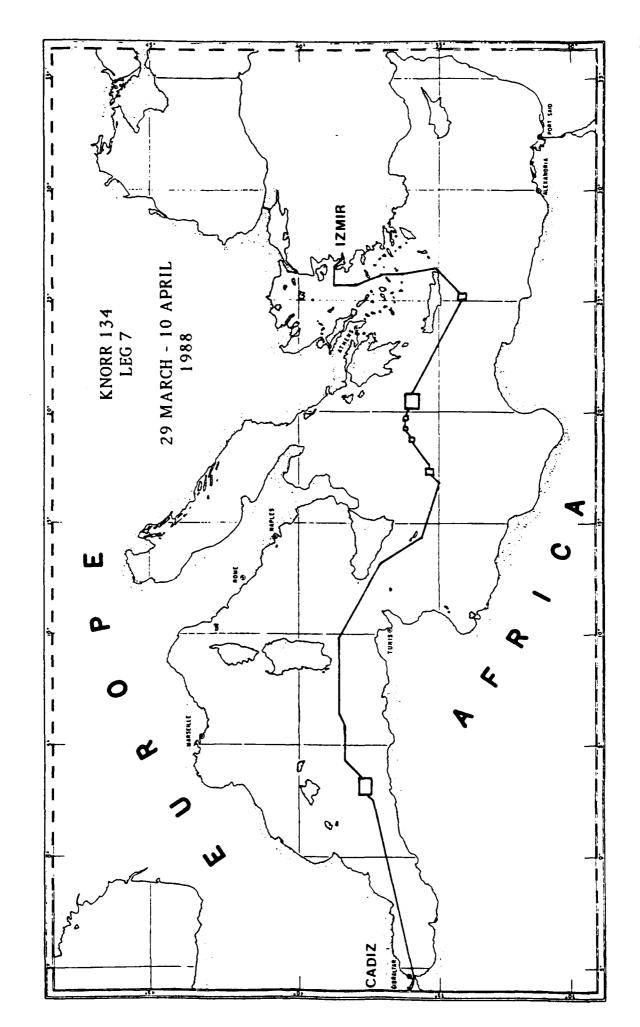
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SHEAR SLIDE DESCRIPTIONS - W.H.O.1. SEDIMENT CORES

Pqqe 1 of 1



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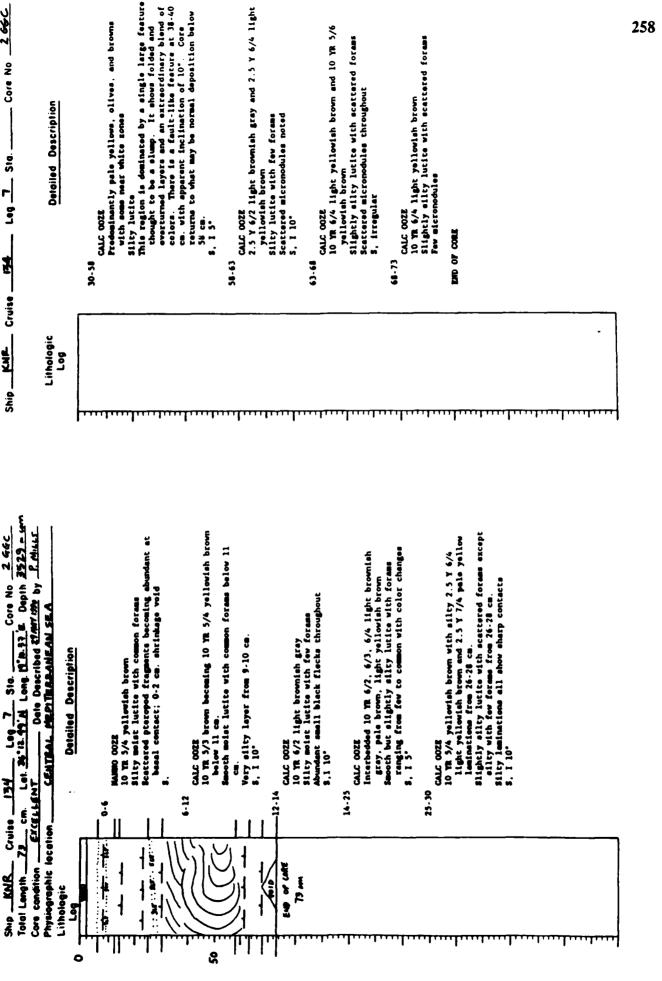
THERE WERE 14 ITEMS THAT MET YOUR REQUIREMENTS.

THANK YOU FOR USING PROGRAM MUDDIE.

CALC GOZE 2.3 Y 6/4 light yellowish brown 10 yellow 10 YE 3/3 dark brown flas below 10 YE 3/3 dark brown flas below 10 YE 3/4 dark gray leadneations alightly disturbed; 0-2 cm graylah brown lamination as graylah brown lamination as graylah brown lamination as graylah brown mottles graylah brown mottles graylah brown mottles graylah brown mottles graylah brown mottles graylah brown mottles graylah brown mottles graylah brown mottles graylah brown mottles colst lutite CORE	Let 35° 61. 6 M Long 18 19. 2 L Core No 1666. Let 35° 61. 6 M Long 18 19. 2 L Core No 1666. Let 35° 61. 6 M Long 18 19. 2 L Core No 1666. CRATTAL MCDITEBRANEAN SEA Detailed Description Leg No. 7		2.5 Y 6/4 light yellowish brown Few 10 YR 3/3 dark brown flecks above 5 cm. and below 10 cm. SEDIMENT 3.5 YR 5/6 strong brown lamination at 2 cm.; 10 YR 4/1 dark gray laminations 2.3 cm.; 2.4 cm. slightly disturbed; 0.2 cm. void 8.	2.5 V 6.4 light yellowish brown but slightly more	Smooth lutite 10 TR 4/2 dark 10 TR 4/2 dark		75 NANNO GOZE 2	CALC/NAMMO 0022 2.5 V 6/3 light yellowish gray	ed very Raint 10 IR 4/2 dark												•
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SHEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

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2660

Core No

Leg 7 Sto.

Ship KMF Cruise

Core No 2 46C

VISUAL CORE DESCRIPTION

Cruise 134

Ship KNR

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SHEAR SLIDE DESCRIPTIONS - N.H.O.T. SEDIMENT COMES

Page 1 of 2

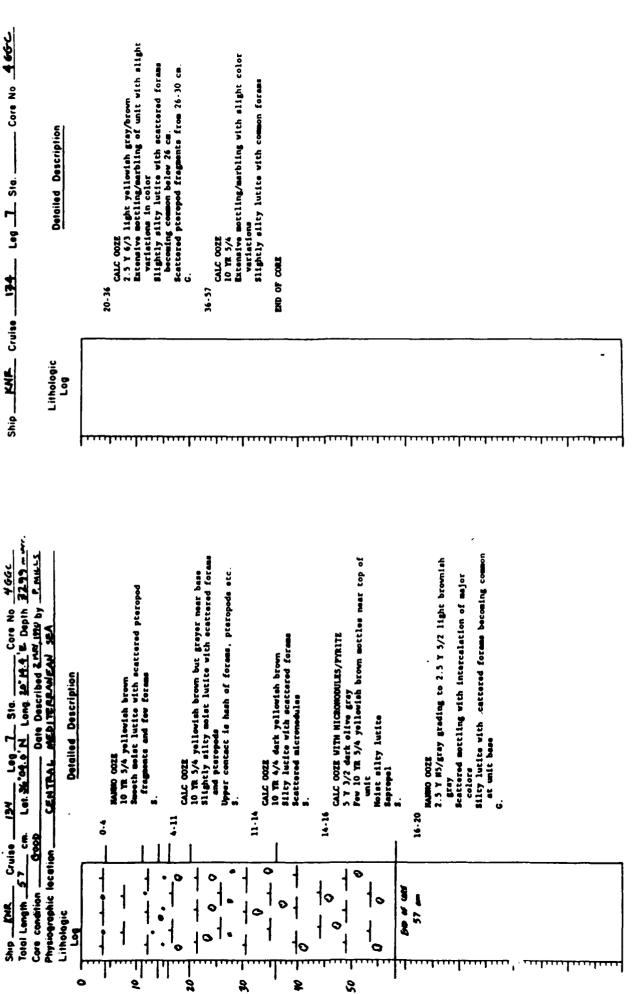
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SHEAR SLIDE DESCRIPTIONS - M.N.O.I. SEDIMENT CORES		TEL	Itton 134				<u>.</u>	SEDIMENT	TYPE	NAJINO OOZE	ZZOO OYTO	CALC 002E	CALC GOZE	CALC 002E	CALC 00ZE	CALC 00ZE	CALC 002E											
		Sign	Expedition	Leg Bo)	9	12	20	28	3	99	72											

Ship EME Gruise 194 Lag 7 Sto. Core No. 9 600.

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KNR	Expedition 134					SEDIMENT	TYPE	NANNO 002E	CALC OOZE	CALC OOZE W/	CALC OOZE/ MICRONODULES/	PYRITE	CALC 002E	CALC 002E	CALC 002E	CALC DOZE WITH DETRITUS							
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VISUAL CORE DESCRIPTION

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SHEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES .

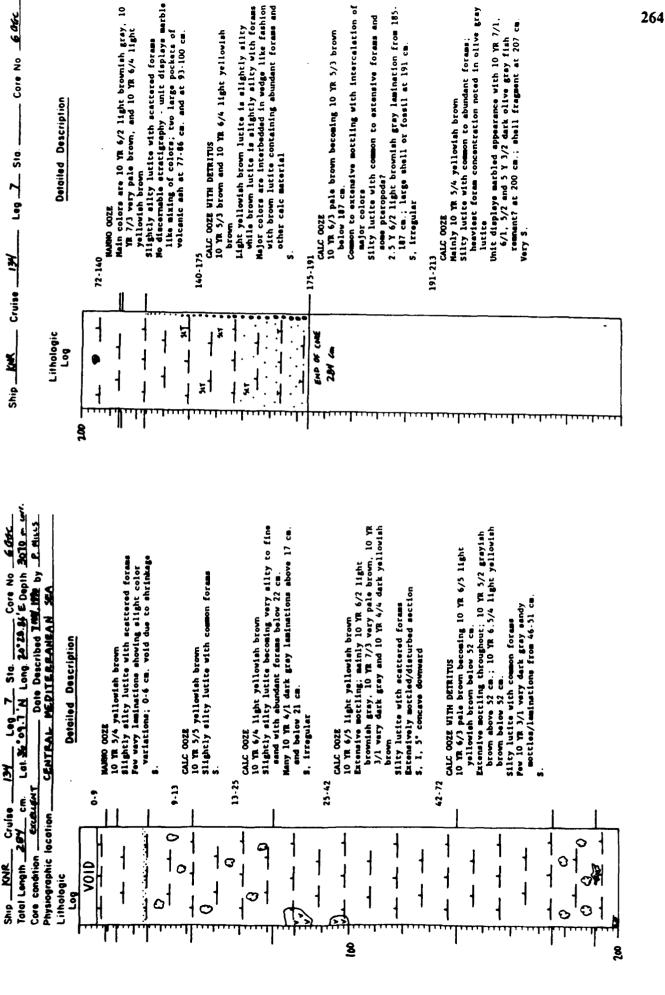
VISUAL CORE DESCRIPTION	Ship KNR Cruise 134 Leg 7 Sto. Core No 5 GGC. Total Length 100 cm. Lat 36 10.22 N Long 20.23.6 E. Depth 3149 m Long. Core condition WYCELLENT Date Described 2011 170 by P. Mitts Physiographic location CENTRAL MEDITERRANEAN SEA	Detailed Description	*** - 0	NAMNO 00ZE 10 YR 6/3 pale brown Paint 10 YR 5/2 grayish brown mottles	Smooth moist lutite with few foress S. 1, S 4-10 MANNO GOZE 10 YR 6/4 light yellowish brown Smooth moist lutite with few foress S.	0 0 10.25	CALC 00ZE 10 YR 4/4	18 cm., otherwise 10 TR 6/2 light brownish gray,	Very solar lightly silty lutite with scattered	Very high water content . unit slightly disturbed.	S, I, 5°	25-30	10 YR 6/2 11ght	Slightly silty lutite with scattered forms and	Scattered micronodules	1 6	CALC GOZE WITH DETRITUS	brown becoming 10 YR 6/2 belo	Common mottling with intercalation of major colors Slightly elity lutite with few forams and	10 YR 5/2 grayish brown lemination at unit base	vi	+	31 5.T.		2
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SHEAR SLIDE DESCRIPTIONS - M.H.O.I. SEDIMENT CORES	S.	Expedition 134 Leg No. 7			SEDIMENT TYPE	NANNO 002E	CALC 002E	CALC 00ZE	CALC GOZE W/	/PYRITE	NANNO OOZE	CALC 002E	CALC 002E												
	Shtp:	Leg No.	\vdash												_				_	-		_			

Station No. Total Core Length 100	ESTIMATED ABUNDANCES (%)	Ingranic Naterial Biogenous Material	Clay	3 Z N N Z Z N N N Z Z N N N Z N N N Z N N N N Z N	5 1 8 2 75 TR TR 7	7 1 22 7 60 TR TR	1 19 5 60 TR 10	2 2 19 2 30 TR 30	3 1 18 3 45	191 3						
1on 134			SEDIMENT TYPE	NANNO OOZE 2	NANNO OOZE 2	CALC 002E 3	CALC GOZE 4	CALC GOZE WITH DETRITUS 15	CALC OOZE 10	VOLCANIC ASH 5						
Expedition Leg No.		_	LEVEL	-	7	16 C	26 C	36	70 5	98 1						
		10 YE 6/4 light yellowish brown elternating with 10 YE 7/1 ware sale brown	ti Pi													

SHEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Core No. 3 66C

Ship KNE Cruise 194 Leg 7 Sto.



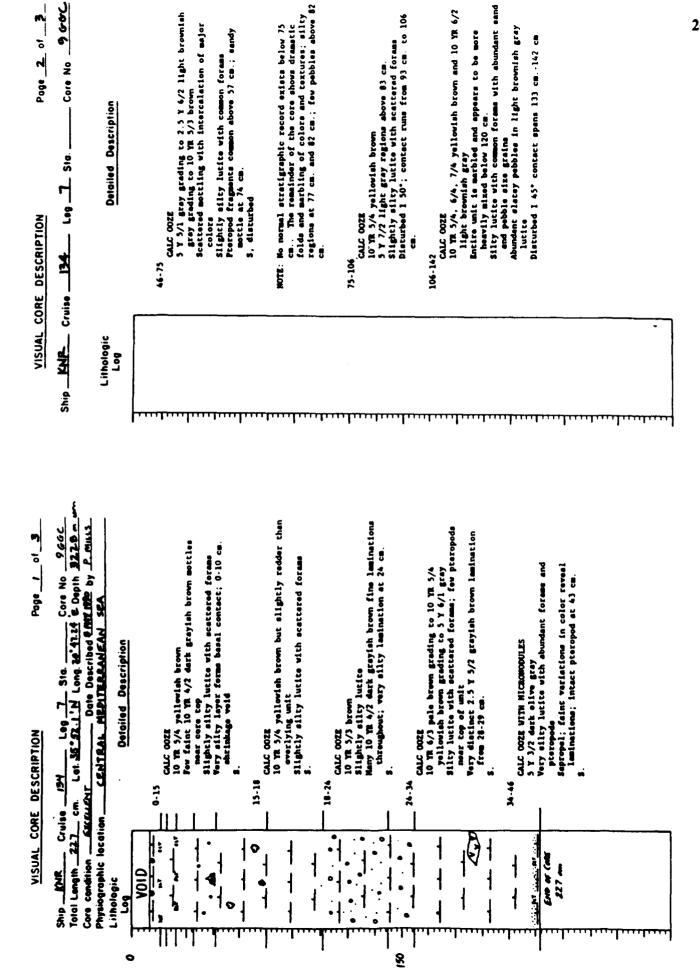
Core No 6 Ouc

Page 2 of 3

VISUAL CORE DESCRIPTION

Poge 1 of 8

JEAN JEIN MESCHIFILMS - M.M.O.I. SEDIMENI LUKES	Ship: KNR Core No. Expedition 134 Station No.	Leg No. 7 Total Core Length	ESTIMATED ABUNDANCES (%)	S11¢ & Sand	SEDIMENT TYPE TYPE TYPE TYPE TYPE TYPE TYPE TYP	6 NANNO OOZE 3 5 1 12	10 CALC OOZE 5 6 1 16	18 CALC 002E 10 4 1 12	33 CALC 00ZE 1 7 1 14	60 WITH DETRITUS 15 3 TR 28	105 NANNO 002E 3 2 TR 10	160 CALC OOZE 15 3 1 22	182 CALC OOZE 4 2 TR 15	200 CALC OOZE 7 4 TR 18	213 CALC GOZE 1 9 TR 12	218 CALC 002E 2 1 TR 19	240 MICRONODULES TR 15 TR 23			
134 Leg 7 Sto. Core No 6 666	Detailed Description	213-214	CALC COZE 7 3.5/2 olive gray Smooth luffer	·s	214-223 CALC GOZE WITH MICROMODULES 5 Y 6/2 light olive gray mixing with 5 Y 5/1 gray below 220 cm. Smooth lutite with few forms Unit is largely 10 YR 6/8 brownish yallow from 215-219 cm.; thin 10 YR 2/2 very dark brown laminations at top and bottom contests	.5	223-284 CALC OOZE VITH MICRONODULES	5 Y 3.5/2 olive gray Smooth lutite grading to silty below 245 cm.	becoming silt to fine sand below 252 cm. grading to sandy below 268 cm. with abundant forsms and	other calc material Entire debrie flow;	well graded bed	END OF CORE								



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VISUAL CORE DESCRIPTION	134
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SMEAR SLIDE DESCRIPTIONS - N.H.O.I. SEDIMENT CORES

986

Detailed Description

Lithologic Log

142-157

CALC COZE

10 YR 5/4 yellowish brown, 10 YR 6/3 pale brown,
5 Y 7/3 pale yellow and 2.5 Y 3/2 very dark
grayish brown
811ty lutte with scattered forams and slatey
pebbles from concentration higher in darker
lutice
Unit shows folded and over turned laminations of
major colors
5, 1, 30°

CALC COZE VITH DETRITUS

Mainly 10 YR 5/4 yellowish brown and 10 YR 6/3
pale brown
Slightly silty lutite with scattered forams; foram
content varies between major colors
Pocker of volcanic ash at 193 cm.; very silty
lamination at 224 cm. 157-227

END OF CORE

Shtp:	KNR				3	Core No.		222 6						
Exped	Expedition 134	1			Stat	Station No.	او			ı				
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Sup EACH Cruise 134 Leg 7 Sto Core No 14 GGC Total Length 80 cm Lot 33.22.31'N Long \$5.49.24'E Depth 2400 m.core condition Excellent Dose Described Arguitable by P. P. Hitts Tithologic Total Cozz 10 Th 3/4 yallowish brown 10 Th 3/4 yallowish brown 10 Th 3/4 yallowish brown 113.13 OLG COZZ VITH HICHOROULES 13 13 21 OLG COZZ VITH HICHOROULES 13 13 21 OLG COZZ VITH HICHOROULES 13 13 21 OLG COZZ VITH HICHOROULES 13 13 21 OLG COZZ VITH HICHOROULES 13 13 21 OLG COZZ VITH HICHOROULES 13 13 21 OLG COZZ VITH HICHOROULES 13 13 21 OLG COZZ VITH HICHOROULES 13 13 21 OLG COZZ VITH HICHOROULES 13 14 24 24 24 24 24 24 24 24 24 24 10 10 10 10 10 10 10 10 10 10 10 10 10

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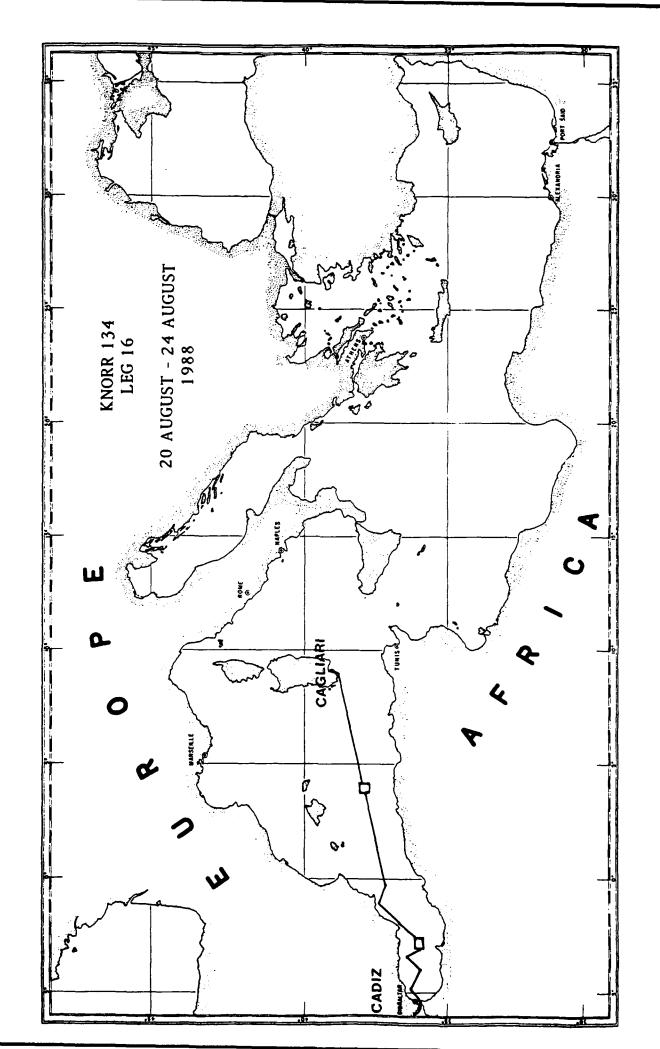
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SHEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

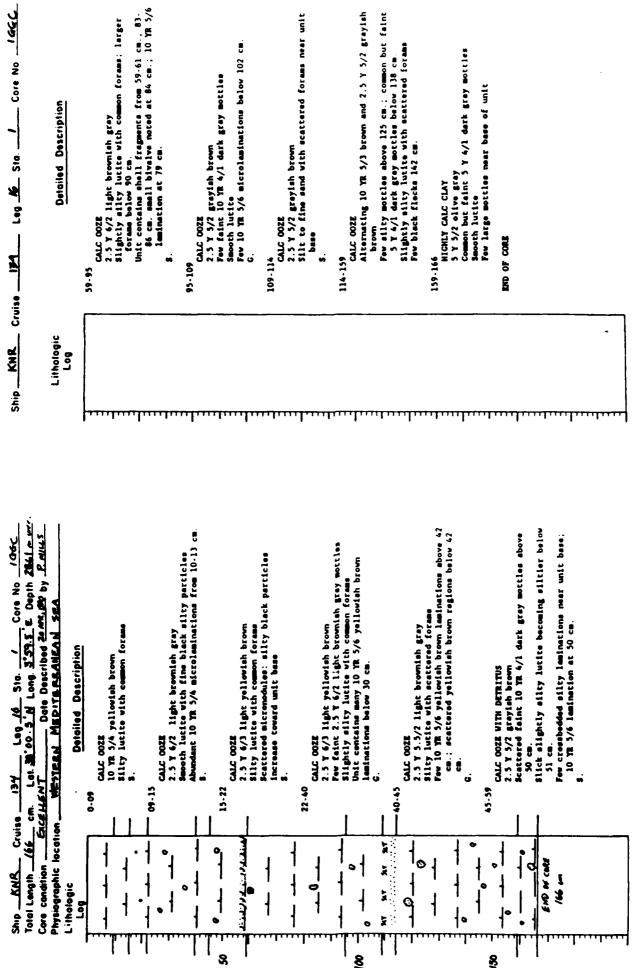
Poge 1 of 1



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THERE WERE 9 ITEMS THAT MET YOUR REQUIREMENTS.

THANK YOU FOR USING PROGRAM MUDDIE.



Poge 2 of 2

VISUAL CORE DESCRIPTION

VISUAL CORE DESCRIPTION

Cruise

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Ship

ORE DESCRIPTION Page 1 of 3	Cruise 134 Leg 16 Sto. 1 Core No. 2 GGC. 2.2.2. cm. Lot. 37:59.26 M Long. 3:51.52 E. Depth. 2575 m.m EXCELLENT Dote Described 23 AM. 197by C. MILLS. location WESTERN MEDITERRANGAN SEA	0-10	CALC COZE 10 YR 5/4 yellowish brown	Few faint 10 TR 5/2 grayish brown mottles above 5	Sightly silty lutite with common forms S. 18-30 CALC OOZE 2.5 V 6/3 light yellowish brown/gray Slightly silty lutite with few forms above 20 cm. Abundant finely microlaminated layers 10 YR 5/3			30-32 CALC 002E	S Y 4.3/Z olive gray Spooth luttle TO VE A A Property of the control of the contr	Very S.	32-61 CALC 00ZE		Scarced 10 YR 6/8 brownish yellow streaks above	Silty lutite with common forams Thin lamination of shundart forams foram unner	contact; scattered brownish yellow regions below		61-67	2.5 Y 5/2 grayleh brown	Common 10 YR 3/6 yellowish brown mottles Smooth lutite with forems grading from common to	S. Scattered				
VISUAL CORE	Ship KNR Cruise Total Length 22-2. Core condition EXC. Phyriographic location Lithologic Log		} } 	-		1	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	od → → → → → → → → → → → → → → → → → → →	\ \ \ \ \		المين		1	1	1 1		1		222	L:	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	····-		,
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SHEAR SLIDE DESCRIPTIONS - N.H.O.I. SEDIMENT CORES	8 2	9	_1_	<u></u>	SEDIMENT TYPE	Calc core	Calc ooze	Calc ooze	Calc ooze	Calc ooze	Calc coze w/	Calc coze	Calc ooze	Calc ooze	Calc ooze	Highly calc			MOTE: SE					
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VISUAL CORE DESCRIPTION Page 3 of 3	Ship KNR Cruise 134 Leg 16 Sto. 1 Core No 2 dec	Lithologic Detailed Description	154-197 CALC COZE 2.5 Y 5/2 grayish brown; but slightly yellower in some areas Notes alightly silty lutite with common forass 6.	CALC 00ZE 2.5 Y 5/3 graylah olive/brow: Faint mottles throughout Slightly silty lutice with scattered forans below 209 cm. Scattered 10 YR 5/6 regions; few laminations at 211 cm. C, mottled.	213-222 HIGHLY CALC CLAY WITH DETRITUS 5 Y 4/1 very dark gray mottle at 216 cm. Smooth lutite END OF CORE	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		2
VISUAL CORE DESCRIPTION	Ship KNR Cruise 194 Leg 16. Sto. 1 Core No. 246C.	Lithologic Detailed Description	67-70 CALC 002E 2.5 Y 5/2 graylah brown Paint 2.5 Y 4/2 dark graylah brown mottles Bmosth moist lutite 8.	70.94 CALC COSTS 2.5 Y 5/2 grayish brown Slightly silty lutter with scattered forms above 75 cm. 2.5 Y 3/4 light elive brown lamination at 79 cm.; unit become siltier near base and contains few yery silty laminations below 90 cm.	54.130 CALC GOZE 2.5 Y 5.5/2 light brownish gray with slight color variations Scattered metring with intercalation Statement slightly slity lutite with foreme ranging from scattered to common Few 10 YR 5/6 yellowish brown lesinations from [13.13 cm.	130-148 CALC COZE 2.5 Y 5/2 grayish brown 2.5 Y 5/2 grayish brown Slightly silty lutite; few forems at 133 cm. Faint 2.5 Y 5/6 light elive brown laminations at 150 cm.	148-154 CALC OOZE WITH DETRITUS 2.5 Y 5/2 grayish brown Interbedded silty and very silty lutite Unit subibits wary crossbedding of silty layers 8.	

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													Cruise 134 Leg 16 Ste. 3 Core No 104 cm. Let. 36-03-31 N Long 3-15.54 W Depth
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	SEDIMENT		—		-	<u> </u>	<u>_</u> '				<u> </u>		to abundant Widely scattered shell fragments throughout; few
ונאנו	74				PLEU			sp	ET 9.3				G. G. Cronodules
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"	Calc some		+	+	-	•	+	+	†	+	+	+-	Common to extensive mottling throughout; 5 Y 4/2
2		╁	-	-	\$	F	+	┿	 	+	E		Silty lutite with common forans; forans abundant within mottles
Ā	Calc oose	┢	~	-	2	┼─	8		+ -	2	-		Scattered shell fragments; foram sand lens at 78.
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CORE DESCRIPTION Page / of /	Cruise 197 Leg 16 Sto. Core No 6 GGC. 7 cm. Lat. 34 21.18 N Long. 3.52.9 W Depth 924 m em. 6xC6LLENT Dote Described 26 MM. EPPO by P. MILLS.	Detailed Description		0-103	5 Y 5/2 olive gray Slightly ality lutite with common to scattered	forms Scattered micronodules throughout; shell fragments at 14, 43, 99 cm.; large intact shell 3 cm. X 3 cm. at 31 cm. G. 105-127 CALC DOZE WITH DETRITUS 3Y 5/2 olive gray	Abundant 5 Y 4/2 olive gray mottles Slightly silty lutite with scattered forams and	shell fragments Scattered micronodules; void 122-125 cm.	END OF CORE															
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Poge 1 of 1

Cruise 154 Leg 16 Sto. 4 Core No. 7 GGC. 7 cm. Lat. 36'27, 2'N Long 3'32:41 W Depth 926 cm. EXCELLENT Date Described 35 475, 180by P. Allels ation WESTERN MEDITERRANIEN SEA	CALC GOZE	5 5/4 olive grap Silty lutice with abundant forans Top 18 cs. slightly disturbed; two shell fragments		60-208 CALC GOZE WITH SOME CONCENTRATIONS OF DETRITUS 5 Y 5/2 olive gray Slightly silty lutte with scattered foress Several regions contain greater abundances of	forams; scattered shell fragments throughout; scattered micronodules noted below 140 cm.	٠	208-26/ CALC GOZE WITH SOME CONCENTRATIONS OF DETRITUS	5 Y 5/Z olive gray Common to extensive 5 Y 4/Z olive gray mottling	Signiy silty lutite with common foress and scattered preropod or shell fragments throughout	END OF CORE					<u> </u>							
Ship KMR Cruise Total Length 267 c. Core condition EKS Physiographic location Lithologic Log	1 1	1	† §		1	1 1 1	+		1 1 1	- -	1 + +	· +	† † †	┤ .	1 1	+	•	 	 		267 mm	•
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VISUAL CORE DESCRIPTION	Ship KHS Cruise 134 Leg 16 Sta. 5 Core No B 40C. Total Length 260 cm. Lat. 35.59.31 Long 4.25.35.14 Depth 1349 mm. Core condition Editation American American States of American	DIION MENIEM FIELDMENIN SEC	Detailed Description		0-240 CALC DOZE	SY 5/2 olive grav	Scattered 5Y 4.5/2 olive gray mottling and	Slightly slity lutite with common forans Slightly slity lutite with common forans Few 5W 32 dark elive gray mottles from 115-125 cm. and from 200-225 cm.; scattered micronodules	below 170 cm.; few shell fragments noted in interval 160-170 cm.	240-260 CALC 002E	5 Y 5/2 olive gray	Slightly silty lutite with common forems	Scattered micromodules visible throughout; several regions show increased foram concentrations	END OF CORE			· ·			•					1				
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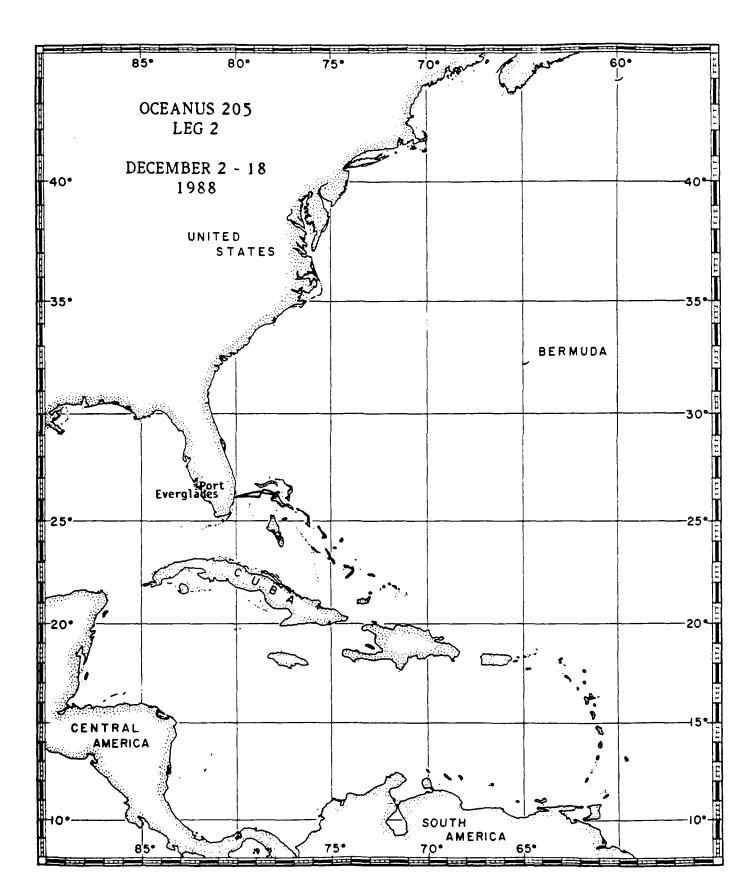
SHEAR SLIDE DESCRIPTIONS - N.H.O.I. SEDINENT CORES .

Page 1 of 1

Cruise 134 Leg 16 Sto. 5 Core No. 966C. 153 cm. Lat. 39.394 N. Long 4.25.16 W Depth 1940 m.m. Excellent Mestern Mediterralent Sea. Sea.	0-153 CALC 002E	57 5/3 olive Scattered large 57 5/2 olive gray mottles and	Silghtly silty lutite with common foreast large, but wary faint 2.5 Y 5/4 light olive brown vertically eviented feature from 40.65 cm.; Scattered groups of black flacks below 60 cm.; few shall fragments or other macroscopic debris noted below 100 cm.; 10 YR 4/6 dark yellowish brown mattle at 107 cm.; 5Y 3/2 dark olive gray burrow at 13 8 cm.	END OF CORE																		
Ship KMR Cruise. Total Length 183 cm Core condition 65C Physiographic location Lithologic Log		15			1	1	1 2 2	1	1 1	05/		1	*****	,,,,	1	· · · · · ·	1111	,	···	I		-
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THERE WERE 120 ITEMS THAT MET YOUR REQUIREMENTS.

THANK YOU FOR USING PROGRAM MUDDIE.

VISUAL CORE DESCRIPTION Poge 1 of 1	Ship OCE Cruise 205 Leg 2 Stg. 4 Core No 47PC. Total Length 133 cm. Lat. 26.10.32N Long 11.30.05 w Depth 714 cm. Core condition 6xCELLENT Date Described 25 sept 19.by P. m.L.S. Physiographic location LITLE BANAMA BANK Lithologic Log	0000	50 0 Commonly to extensively bioturbated below 27 cm. Very elity lutite with some fine sand G, mottled G, mottled CALC COZE 10 YR 8/2 white Scattered 10 YR 7/1 light gray mottles Very elity lutite	61-133 61-133 GALC GOZE 10 YR 8/2 white Few 10 YR 8/2 mottles scattered throughout Chalky lutite EMD OF CORE	END of Code	
VISUAL CORE DESCRIPTION	Ship OCE Cruise 205 Leg 2 Sto 2 Core No 266C. Total Length FF cm Lat. 26 to 50 N Long 17°99 of Wheplin Toban Lat. Core condition Not SPLIT Date Date Described by Lithologic Detailed Description Lithologic Detailed Description	NOTE: CORE 18 IN STORAGE BUT REVAINS UNSPLIT.				

CORES
SEDIMENT
N.H.O.1.
DESCRIPTIONS
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Page 1 of 1

Cruise 205 Leg 2 Sto. 4 Core No 4PC cm. Lat. 26:28:28 Long 37:38.65 W Depth 314 mm. EXCELLENT Date Described 2PEC, 21 by R. Miles. atton Detailed Description	CALC GOZE 10 YR 7.5/2.5 Hight brownish gray 511cy lutite with common foreas 6-1 cm. shrinkage void 5. 4-31 CALC GOZE 10 YR 8/1 white 5cattered 10 YR 7/2 Hight gray mottles 5ilty lutite with common to abundant foreas and acattered pteropode	END OF CORE
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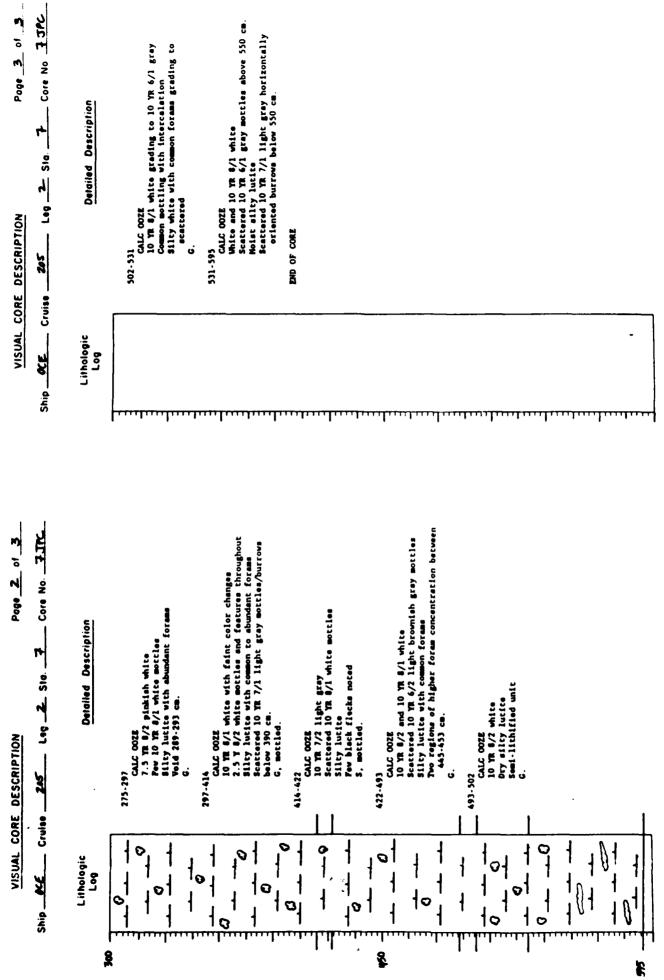
SMEAR SLIDE DESCRIPTIONS - N.H.O.I. SEDIMENT CORES

VISUAL CORE DESCRIPTION	Cruise 205 Leg 2 Sto 6 Core No 6 3PC. 30 cm. Lat. 26 10.16 N Long 11'90.19 W Depth 698 m cm. 67/2212ENT Doble Described 21507 MP by F. MILLE cation LITTLE BOHAMA BANK	Detailed Description 0-23	CALC 002E 10 YR 7/2 11ght gray	Scattered mottling 10 YR 9/2 white below 15 cm. Silty lutite with abundant forams and pteropods	0.10 cm. shrinkage void G, mottled. 23-85 CALC GOZE Few 10 YR 7/2 mottles and burrows above 35 cm. Silty, chalky lutite with abundant forass Few scattered coral fragments noted near base of unit	<i>i</i>	85-190 CALC 00ZE	10 YR 7/2 light gray Scattered but faint color changes throughout Wary allty lutite with increasing concentration of	pteropoda downcore Shrinkage void 145-148 cm.; scattered black	regions noted below 150 cm.	190.345	CALC OOZE	Vory silty luttle with abundant sand size grains	(prerepose and rorms) 10 YR 7/2 light gray lens (concave up) at 241 cm.	245-271	CALC 002E	Very silty lutite		271.200 27IC 002IC	Very silty lutte with lithified chunks Contains large lithified bits at bottom of core	END OF CORE	1		1
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SHEAR SLIDE DESCRIPTIONS - M.H.O.I. SEDIMENT CORES		Expedition 205 Leg No. 2			SEDIMENT TYPE	CALC 002E	CALC 002E			#														
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SHEAR SLIDE DESCRIPTIONS - N.H.O.I. SEDIMENT COMES .

RE DESCRIPTION	Cruise 265 Leg 2 Sto. 7 Core No. 7 JPC. S. cm. Lat. 26 66 19 N. Long 77 W. P. W. Depth 1320 m. cov. EXELLENT Dote Described 6 JPM 170 by P. MILLS ation Detailed Description	0-30		Common 10 YR 5/2 tight grey and 10 YR 7/3 very pale brown Common 10 YR 5/2 white mottles	Sitty lutite with abundant forans and common praroped fragmente 0-7 cm alightly disturbed 5. 20-55 CALC COZE 10 YR 8/1 white	Silty luite with about 61.9 courses Silty luite with about forest 10 YR 8/3 very pale brown bands at 24, 28 cm.			10 YR 0/3 wery pale brown Few 10 YR 7/1 11ght gray mottles	Silty lutite with common to abundant forams and some visible pteropods	Faint color changes throughout S.	100-205	CALC COZE 10 YR 8/1 white and 10 YR 8/3 very pale brown	Faint mottling with intercalation scattered throughout		156-159, 183, 204-205 cm. G.	195.235	CALC OOZE 10 YR 8/1 white	Common to extensive 2.5 Y 7/2 light gray mottles Silty lutite with common forms	Few 7.5 YM 8/2 pinkish white mottles with abundant forams below 270 cm.	S, mottled.		. 1	
VISUAL CORE	Ship OCE Cruise Total Length 595 Core condition Ex Physiographic location Lithologic Log		0 0	1		1 0		1 0		, 	1	100	- - - - - - - -		1111	0	1011	 	10	1	7		 	diev
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	Ship: Expedition	Leg No.	-		LEVEL	Ξ	50	130	220	260	285													



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Expedition 205		•		S	Station No.	<u>.</u>	7						Lithologic	ogic		d Description	
Leg No.	1			٥	3	Total Core Length	ngth .	285		5							
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SEDIMENT		ants 29 fu		abria.		L	sits	s	tua.					101	Few 10 TM 7/ 811ty lutic 0-2 shrinka G.	Few 10 TM 7/1 light gray mottles above 10 cm. Silty lutite with common forams 0-2 shrinkage void; few micronodules? G.	• • • • • • • • • • • • • • • • • • •
	1	fathta0 12 Micronod	set i foe5	olneofoY Az	C) 4A	20101	201 onns#	boqona34	Discoest Others	emoss 10	7&forbsЯ	Zboudez	ծ « առուս 1, 1	0 1 1	20-63 CALC OOZE 10 YR 8/1 white Common 10 YR 7/	CALC COZE 10 YR 8/1 white Common 10 YR 7/2 light gray mottles	
CALC NOZE	=	ı I			•	20	40	4 TR	R 20	,				} }	Silty lutite preropode	Silty lutite with common forams and some visible pteropods	e visible
CALC 002E	£	Ħ			,	20	37	9	25	\$		1	3		10 YR 8/3 YR	10 YR 8/3 very pale brown bands at 25, 28 and 31 cm.	28 and 31
CALC 002E		1 18			01	25	*	10 TR	R 20	Ħ			. Tri	1 5	END OF CORE		
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SHEAR SLIDE DESCRIPTIONS - N.H.O.I. SEDIMENT CORES '

Poge 1 of 2

VISUAL CORE DESCRIPTION

Cruise 205 Leg 2 Sta. 9 Core No 97FC. 11 cm. Lat 26 of 18 Long 11 15.31 W Depth 1529 a cr. Exception Little DataMa Bank Detailed Description	0-36 CALC 00ZE 10 YR 7/3 very pale brown grading to 10 YR 8/2	Scattered 10 YR 6/2 light brownish gray burrows should horizontal orientation Chalky lutite with abundant forass 0.9 cm. missing; 9-15 cm. shrinkage void; foras pteropod sand layer at unit base 8.	CALC 002E 10 YR 7/3 very pale brown	Common 10 YR 6/2 mottles; few 10 YR 6/2 horizontally oriented burrows above 50 cm. \$11.v lutte with abundant forams and opercoods	ů.	68-100 CALC 002E	10 YR 8/2 white becoming even more white below 80 cm. cm. 10 YR 7/2 light gray mottles	Chalky lutite with abundant forams Few moist horizons containing greater	concentrations of pteropods G.	100-210	10 YR 8/2 white Few horizontal burrows; 10 YR 5/1 and 10 YR 4/1	Gray most notably at 107, 138, 204 and 208 cm. Chalky luttle with abundant forams Shrinkas void 160,167 cm. remans horizontally	oriented features where texture changes slightly commonly spaced 3-5 cm. apart.	v i				1	
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Ship: Expedition Leg No.		ונאפו	3	93															

Siliceous **Binsforbs**R 7. ĸ Biogenous Material æ . 9 Others 9 2 10 TR Discoasters 297 Ĕ ESTIMATED ABUNDANCES (%) 10 ~ 80 Pteropods Total Core Length Core No. 9 JPC Station No. 9 45 97 45 21122010nnsM ટ્ર % 25 50 2 20 20 52 CITÀ 2 2 8 2 12 15 Spatic Inorganic Material 2eoli tes Micronodules Setrited grains Ĕ 205 SEDIMENT CALC 00ZE CALC DOZE CALC 002E CALC OOZE CALC 00ZE CALC 002E 3 TYPE Expedition_ Leg No. Sh1p: LEVEL 91 2 295 8 150 240 10 TR 8.1 white Common to extensive 10 YR 6/2 light brownish gray mottles/burrows above 250 cm. Moint chalky lutite with abundant forams and regions of high pteroped concentration Mottling burrowing shows horizontal orientation; abundant 10 YR 3/1 wery dark gray flecks noted throughout Core No 9JPC Chalky lutite with abundant forase and pockets of CALC 002E 10 YR 7/2.5 very pale brown Faint 10 YR 8/1 white concave upward features pteropod fragments Scattered dark gray and black flecks Detailed Description Leg 2 S10. 9 210-280 CALC 002E END OF CORE 280-297 Lithologic

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SNEAR SLIDE DESCRIPTIONS - N.H.O.I. SEDIMENT CORES

Poge 2 of 2.

VISUAL CORE DESCRIPTION

Ship OCE Cruise 205

Ship: OCE Core	Expedition 205 Station	Leg No Total	ESTI	Inorganic Material	SEDIMENT TYPE feathing services contains solutions contai	-	50 CALC 002E TR													-
Cruise 201 Leg 2 Sto. Core No 17 16. 87 W Depth 1529 a.m. EXCELLENT Date Described 2017 19 P. MILLS cation LITTLE BAHAMA BANK.	Detailed Description		0.32	CALL COZE 10 YR 2/3 very pale brown Paint moreline 10 YR 8/3 white and 10 YR 2/1 16-by	Silty moist lutite with abundant forame and visible prescopeds For black flecks noted near core top G. Sic note	10 YR 8/2 white grading to 10 YR 8/1 white Common mottling 10 YR 7/3 wery pale brown above 50	ce.; 10 YR 6/2 light brownish gray below 50 cm. Chelky lutite with abundant forese	Vieible preropode	62-16	10 7/3 very pale brown becoming lighter near	Faint 10 YR 7/1 light gray mottling Silty lutite with abundant forems	Very similar to top; repenetration? of pilot	END OF COME							
Total Length 66 Core condition Physiographic location	Lithologic	VOID	: - - -	† •	1 0 1	 0	 • 	 	+ + + + + + + + + + + + + + + + + + + +	200 % OF 3	<u> </u>			****	****	 	17 1		777	

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SMEAR SLIDE DESCRIPTIONS - M.H.O.I. SEDIMENT CORES

Ship: OCE Core No. 12 GCC Expedition 205 Station No. 12	DOWNER DESTRICT OF THE STATE OF		20 PT & C	47 CALC 002E 1 7 8 50 10 20 3								-
Ship OCE Cruise 205 Leg 2 Sta 12 Core No 12 GGC Total Length 97 cm. Let 26 10.17 N Long 11/12 by Depth 1151 cm. Core condition EXCELLENT Date Described Total by Raines Physiographic location Lettle Bahaha Adalx Lithologic Long Long Long Long Detailed Description	0 0		So _ C _ C _ END OF CORE		4	15.8 S. S. S. S. S. S. S. S. S. S. S. S. S.	····	 	· · · · · ·	 	 	

SMEAR SLIDE DESCRIPTIONS - N.H.O.I. SEDIMENT CORES

VISUAL CORE DESCRIPTION

Total Detrical Series S	La Long 17 18.79 W Depth 934 ser. Dote Described 186 1878 by P. Miles	Expedition	Leg No2			as 3.0 cm, and 2.0 cm, and 10 tm //w very pase brown bands at 9.10 and 12.13 cm, Scattered faint mottling primarily 10 YR 7/1 light	TYPE	CALC 002E	SS CALC 00ZE	150 CALC 002E	259 CALC 002E									
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SHEAR SLIDE DESCRIPTIONS - N.H.O.I. SEDINENT CORES

VISUAL CORE DESCRIPTION

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Page 1 of 1

VISUAL CORE DESCRIPTION

Ship oce Cruise 205 Leg 2 Sto 15 Core No 15 PG.
Total Length 85 cm. Lat. 2 M. 67 N Long 12 M. 13 W Depth 734 m sor.
Core condition EXCELLENT Date Described 1 of MOby P. MILLS
Physiographic location LITTLE BAHAMA BRUK

Detailed Description

Lithologic

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		153	Blogenous	reropods	d co	•	~											
15 %	- dth	ğ		efferetonne	3 8	4.5	33											
	·	28	1	Forens	2	2	2											
Core No. Station No.	Total Core Length	ESTIMATED ABUNDANCES (X)	1	Clay	2	2	2											
Stat	Tote	EST	1	olcanic shards	٨													
			Inorganis Material	eolites	z													
			Tues.	l cronodul es	₩ F		-											
1,			luo	etrital grains	0													
OCE Ltfon 205	· -			SEDIMENT TYPE	CALC 00ZE	CALC 00ZE	CALC DOZE											
Ship: Expedition	Leg No.			ונאנו	-	07	78											

Scattered very faint white and 10 YR 7/1 light gray mottling.

Wery sittling Very fits with abundant forams Visible pteropode throughout: large pteropod/foram band burrow 22-27 cm.; 10 YR 7/4 very pale brown bends at 11-12 and 15-16 cm.

CALC DOZE

11-66

3

4

2

CALC GOZE
10 YR 8/3 very pale brown
Few faint 10 YR 7/1 light gray mottles
Very silty lutite with abundant forams

END OF CORE

66-15

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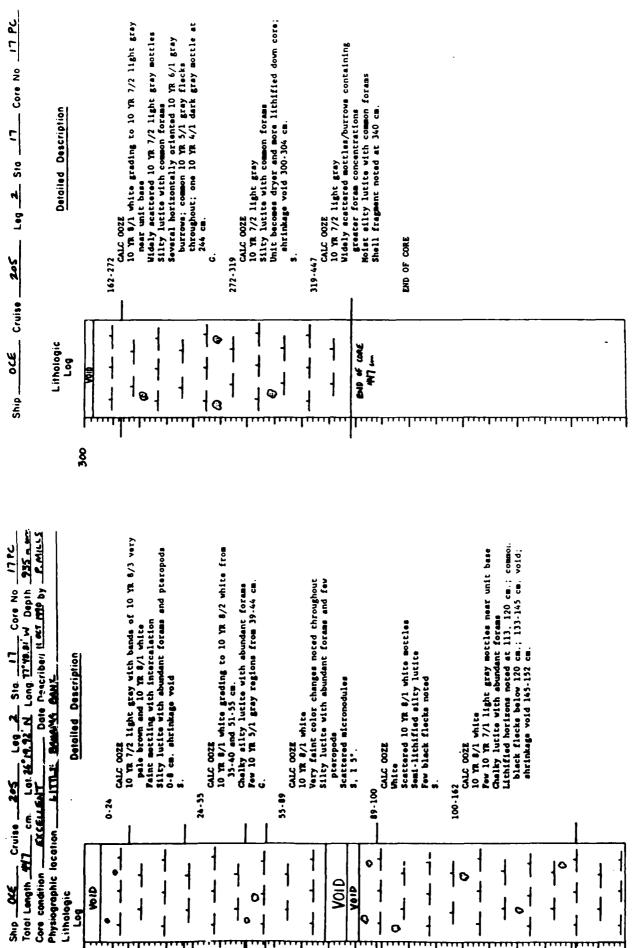
END OF CORE

10 YR 7/2 light gray Silvy lutite with abundant forams Unit becomes slightly darker below 7 cm.: ahrinkage void 0-2 cm.

CALC 002E

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Poge 2 of

VISUAL CORE DESCRIPTION

Proge 1 of 2

VISUAL CORE DESCRIPTION

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SPEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIPENT CORES .

Page 1 of 1

Cruise 265 Leg 2 Sta. 17 Core No. 17 FG. The Core No. 17 FG. EKCELLENT Date Described to GCT 1770 by P. MILLS Otton LITTLE BANAMA BANK Detailed Description	0.17	CALC COZE 10 YR 7/2 11ght gray but 10 YR 6/4 11ght yellowish	brown from 10-11 cm. and 10 YR 7/4 very pale brown from 14-17 cm. Silty lutite with abundant forams and pteropods 0-4 shrinkage void; good core top 17-54 CALC OOZE 10 YR 8/1 white Common but faint 10 YR 7/1 light gray mottles	Silty lutite with abundant foreas and preropods Pockets of wet pteropod/forea sand at 16-19 cm.	and at 25-27 cm. S, mottled.	54.73	CALC 002E 10 YR 8/2 very pale brown	Abundant but faint 10 YR 8/1 white mottles throughout	Silty lutite with abundant forage and preropods	_	IO TR 8/3 very page brown Few faint 10 YR 7/1 light gray mottles	Holst ellty lutite with abundant forens and preropods	Carrences overlying unit	END OF CORE								
Ship 066 Cruise Total Length 97 Core condition 68 Physiographic location Lithologic Log	1	┤ ┤ '''ſ			10 1	• • •	 	- - 	0	END OF CALL	€	••••		Liii	ч.	1	****	111	1111	····]		יד
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1 3	3	Blogenous Calcareous	P1 scoasters	-	Ħ	ᄄ		-	-				\perp									
ا را	ESTIMATED ABUNDANCES (%)	Blogs.	Pteropods	,	2	\$		3		7		5					_					
Core No. 17 Station No. 1 Total Core Length		3		-	4.5	55	88	79	\$	28	8	19	\dashv		_		-				\dashv	
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Core No. Station No. Total Core	ESTIR	+		,	10	15		,	-				\dashv	\dashv							$\vdash \dashv$	
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			Detrital						F													
OCE			SEDIMENT TYPE	CALC OOZE	CALC 002E	2200 CALC	NANNO OOZE	CALC 00ZE	CALC 00ZE	CALC 00ZE	CALC 002E	CALC 00ZE										
Ship: Expedition Leg No.			ונאנו	8	40	2.5	93	125	220	295	380	977										

SHEAR SLIDE DESCRIPTIONS - N.H.O.I. SEDIMENT CORES .

Page 1 of 2

_ i N	0.15 CALC OOZE 10 YR 8/1 white	Moist silty lutite with abundant forens 0-8 shrinkage void 5, irregular	CALC COZE 10 YR 7/2 light gray grading to 10 YR 8/2 white Common 10 YR 7/1 light gray mottles and intercalations	State with common torans Scattered micropodules		CALC 0025	Few large 10 YR 7/2 light gray and 10 YR 7/3 very pale brown mottles	Chaiky lutite with common forass Upper contact is semi lithified; several 10 YR 6/2 light brownish gray horizontally orlented	burrows below 48 cm.	76-102 CALC HASH	10 YR 8/2 white Calcareous sand vith pebbles and shell frags.	Unit grades to coarser material down section S.	102-112 CALC 002E	10 YR 8/1 white Far 10 YR 6/2 light brownish gray motiles	S. deformed.				ļ
Ship OCE Cruise Total Length 277 (Core condition EKE Physiographic location Lithologic Log	1	1 1	1 1	,		1	 - - -	1	\$ & \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \	1	1 1	1	+	† †	1	1	{	1)	233
17 PG 17 ength 97 Cm	(S) mous Materia	careous	Pteropods Pteropods Discoasters Others consteid sinafons Radioless	48 4	44 4 20 7	G	53 8 TR 8 5												
Core No. Station No. Total Core L	ESTIMATED ABUNDANCES Increants Markets	Silt & Sand	Detrital Micronodules Volcanic Shards Volcanic Shards Torens	T.R 8 20	101		1 10 13												
Ship: OCE Expedition 205 Leg No. 2			LEWEL TYPE	S CALC 002E	35 CALC 002E		97 CALC OOZE												

SMEAR SLIDE DESCRIPTIONS - M.H.O.1. SEDIMENT CORES

Page 2 of 2

VISUAL CORE DESCRIPTION

Ship oce Cruise 205

Lithologic Log

112-279
CALC GOZE
10 YR #/1 white
10 YR #/1 white
Very homogeneous material
Woist allty lutite
Shrinkage void 123-127 cm.; 5 Y 5/2 olive gray
regions from 130-136 cm and 260-273 cm. clay Core No. 19 FC Detailed Description Leg 2 Sto. 19

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Total Core Length ___ Station No. Core No.

Expedition 205 OCE.

Shtp:

Leg No.

19 PC

					EST	IMATE	8	ESTIMATED ABUNDANCES (X)	ES (*			Ì	i
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			S11t &	1 1	٦			3	Calcareous	1		115	Siliceous	~
IEVEL	SEDIMENT TYPE	Detrital	M cronody) es	2eo11tes	Volcanic Shards	Clay	2ms 10 l	2[1220]onnsM	sboqonasiq	21932800210	219410	2mots i0	Rivatoria	Sponges
6	CALC 00ZE	TR	TR			3	30	97	TR		20	-		
26	CALC 002E		TR			5	20	58	3		10	7		
9	CALC 00ZE					2	8	80	TR		10			
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107	CALC 002E	£,	T.			80	15	19			01			
190	CALC 002E		TR			~	20	09			15			
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Ship: OCE Core N	Expedition 205 Statio	Leg No Total	RIVE ESTIMATE	S11 & Sand	SEDIM TYPE TYPE Grates Grants Activonodules Shartes Shartes Shartes	2	S0 CALC 002E 1 1 10	68 CALC 002E TR TR 10										-
Ship OCE Cruise 205 Leg 2 Sto. 19 Core No. 19 PG. Total Length 67 cm. Lat. 26.06.42. N. Long. 117.46.04 W Depth 1683.m.cor. Core condition EXCELLENT Date Described 18.047.199. P. MILLE. Physiographic incortan			ALC OOZE		Common 10 Wh 7/1 light gray mottles/burrows Silty lutite with abundant forame and some visible percepted Two 10 W 6/3 pale brown bands at 16 and 19 cm. 5, irregular. 50 caic core	1	Silty lutite with common forans	CAND OF CORE	! \$	· · · · ·	 7	 	777		· · · · · · · · · · · · · · · · · · ·	 		.,,,,,

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BinsloibsA

Discoasters

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FOREMS

Clay

Pteropods

Biogenous Material
Calcareous Siliceous

ESTIMATED ABUNDANCES (X)

Total Core Length ___

Station No. Core No.

SNEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Page 1 of 1

VISUAL CORE DESCRIPTION

5

19 PG

Ship: OCE Expedition 205 Leg No. 2	SEOIMENT LEVEL TYPE	3 CALC 002E 45 CALC 00ZE					-
Z Sto. Zo Core No Zodec. N Long WHW Depth 1465 m err. Dote Described Fibration	ing to 10 YR 6/3 pale mottles and scattered forams	7/1 light gray and 10 YR h comon forans TR 7/4 very pale brown					
205 Leg	0.10 CALC COZE 10 YR 7/2 light gray grading to 10 YR 6/3 pale- brown Few 10 YR 6/1 light gray mottles and scattered intercalations silty lutite with common forass 0.2 cm. void 8, mottled. 10.54 CALC COZE	Common to abundant 10 YR 7/1 light gray and 10 YR 6/3 pale brown mottles Slightly silty lutice with common forams Horizontally oriented 10 YR 7/4 very pale brown regions at 19 and 25-26 cm.	END OF CORE		• .		
Ship OCE Cruise Total Length 54 cm Core condition EXC Physiographic location Lithologic Log		8 *2 8 *	I t	<u>.</u>	 1111111	 السبا	

Spondes

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Volcanic Shards Clay

Sealfloes

Detrital Grains Micronodules

Pteropods

Biogenous Material
Celcareous

Ingreanic Material Silt & Sand

ESTIMATED ABUNDANCES (X)

Total Core Length __

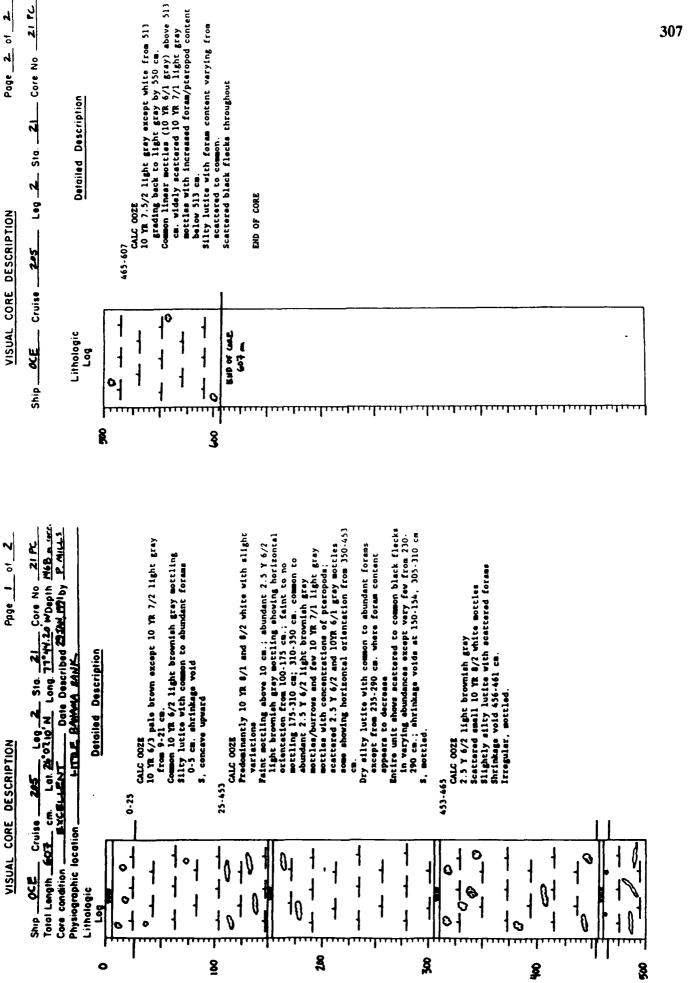
Station No.

20 GCC

Core No.

SMEAR SLIDE DESCRIPTIONS - M.H.O.I. SEDIMENT CORES

Page / of !



SHEAR SLIDE DESCRIPTIONS - M.H.O.I. SEDIMENT CORES

Poge 1 of 1

VISUAL CORE DESCRIPTION

Cruise 265 Leg 2 Sta 21 Core No 21 PC cm. Lat 25'07.16'N Long 11'44.26'W Depth M&B m wr. Not SPLIT Otton LITTLE BAHAMA BANK Detailed Description				NOTE: CORE IS IN STORAGE BUT REMAINS UNSPLIT.																		
Ship OCE Cruise Total Langth E Core condition Not Physiographic location Lithologic Log		7***		1	****	1 • • •	7777	. باب	-177]	-111	դու	بليد	***************************************	IIII	TTT	ىلىن	111	rrr	بيلد		****	,,,,,,l
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		t e	Г	cra430	25	20	10	35	30	15	15											
, , 9	12	São	Celcareous	Discoasters																		
1 1 1	CES (100	2	sbogonest	4	7	2	3	8	~	5											
21 PC 21 PC	MON	"	3	el lesotonneM	52	42	72	47	35	69	19		L		L	L						
Core No. 21 Station No. 22 Total Core Length	ESTIMATED ABUNDANCES (X)		L	2mg-10-1	,	15	\$	10	\$	•	01											
Core No. Station I	T T			CJ®A	3	15	10	\$	14	4	8											
7 K S	1 2	3		Volcanic Shards																		
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Ship: OCE Expedition 205 Leg No. 2				SEDIMENT	CALC 002E	CALC 002E	CALC 002E	CALC 002E	CALC 002E	CALC 002E	CALC OOZE											
Ship: Expedit				IEWEL	\$	100	255	360	797	240	909											
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Core No. 22 Station No. 2	TST ABLE COLOR OF THE COLOR OF	20				_
Core NoStation NoTotal Core l	C1ay K	15				
Sta Tota	Volcanic Shards					
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Ship: OCE Expedition 205 Leg No. 2	SEDIMENT	CALC DOZE				
Ship:ExpeditExpeditExpedit	רבאבר	87				
Ship 66E Cruise 265 Leg 2 Sta 22 Core No 22.666. Total Length 50 cm. Lat 26.0142 N Long 11.43.6 M Depth 122 7 a.m. Core condition EXCELLENT Date Described 16.000 170 P. MILLS Physiographic location LITTLE BULDAN 8.444. Libologic Detailed Description		So compared to a second to the	END OF CORE	 		

Biogenous Material
Calcareous Siliceous

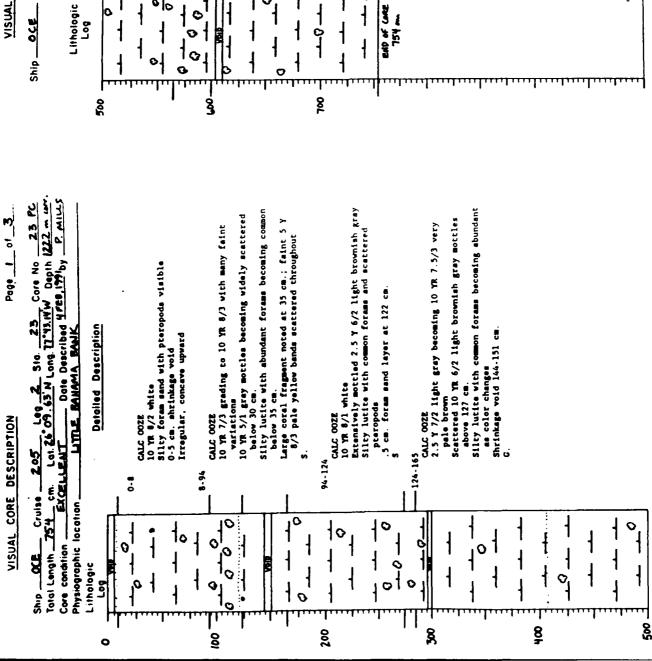
SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

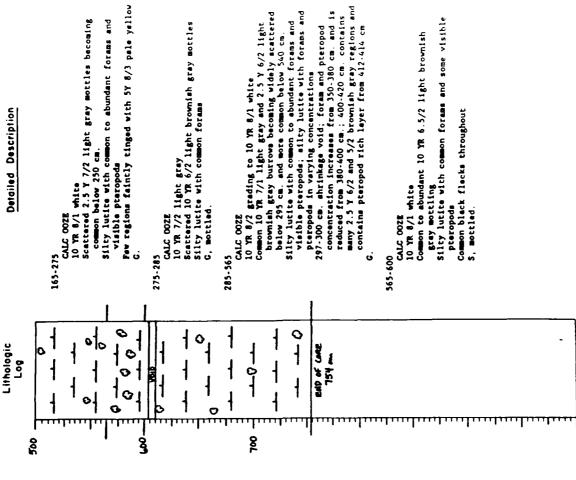
VISUAL CORE DESCRIPTION

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Page 2 of 3

VISUAL CORE DESCRIPTION

Leg 2 Sto. 23 Core No.

205

Calls

Biogenous Material
Calcareous Siliceous E ĭ Ë Ĕ ¥ 2430 \simeq 25 20 25 2 754 Discoasters 7 ESTIMATED ABUNDANCES (%) Total Core Length 65 9 3 4.5 9,7 97 53 9 \$ 9 **elizzolonns** Station No. 5 10 = 20 2 2 2 276TOT 9 9 2 9 Clay 2 ∞ Volcanic Shards Inordanic Meterial Silt & Sand 2eol1tes Ĕ T £ Micronodules Setrite) Seteng 4 품 Expedition 205 SEDIMENT CALC 002E CALC 00ZE CALC 002E CALC 002E CALC 00ZE CALC OOZE CALC OOZE CALC 00ZE CALC 00ZE CALC 00ZE CALC 00ZE 7 Leg No. LEVEL 071 280 280 = 220 999 753 얾 370 900 600-734
CALC DOZE
10 YR 8/1
Few widely scattered mottles 10 YR 6/2
Chalky lutite with few forams
604-610 cm. shrinkage void; small black mottle at
447 cm. Lithologic Log

Sponges

BinsloibsA

SHEAR SLIDE DESCRIPTIONS - M.H.O.I. SEDIMENT CORES

Poge 3 of 3

VISUAL CORE DESCRIPTION

Ship OCE Cruise 209

Leg 2 Sta. 27 Core No. 27 PC

Detailed Description

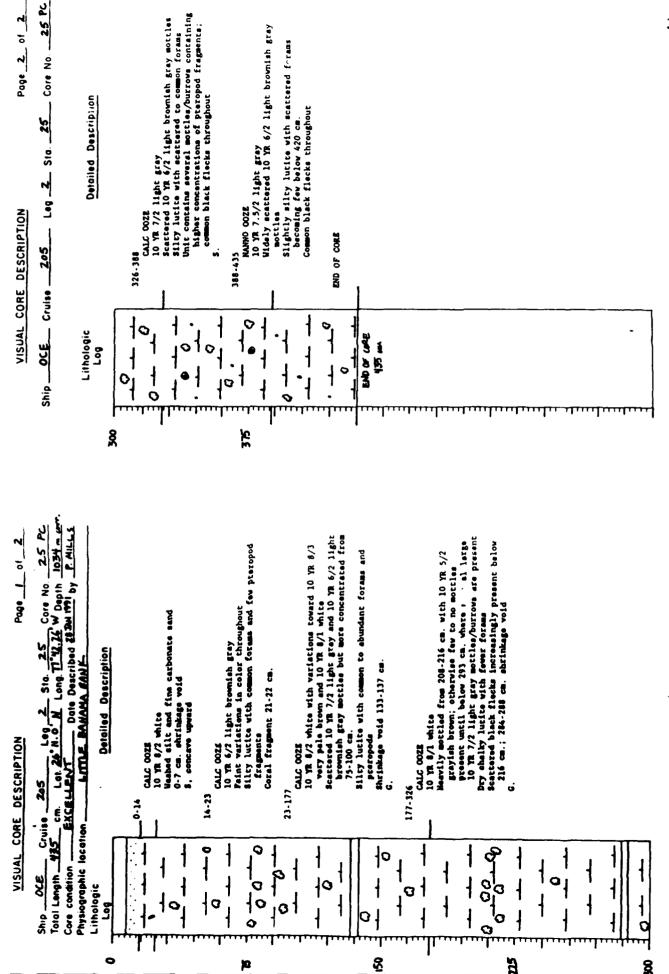
Core No.

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VISUAL CORE DESCRIPTION Page 1 of 1.	245 Leg 2 m Lot 26 99:69 N	hic location LATRE BAH	Lithologic Log <u>Detoiled Description</u>	die	- + + 0-42	CALC 002E	Scattered 10 YR 7/2 light gray and 10 YR 8/2 white mottles Silty lutth with common to abundant forans and personned to abundant forans and	; 	10	CALC 002E 10 YR 8/2 white and 10 YR 7/2 light gray		Amorphous 10 YR 7/4 wery pale brown region from		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1,	brown mottles	Mad by cade Very silty/fine sand with abundant forans and pteropode	Some pockets containing very high concentrations of pteropod fragments.		END OF CORE								-
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SHEAR SLIDE DESCRIPTIONS - N.H.O.I. SEDIMENT CORES	56		8	7		<u></u>	SEDIMENT	17PE		CALC 00ZE	CALC 00ZE	CALC OOZE																
	į		Expedition	Leg No.			,	ונאבו		s	8	16																

remish gray a gain to man to abund form an form and the common form and the common form the co	None Described MAN MI by P. Mints Ship: OCE	Expedition 205	Leg No. 2		10 YR 6.5/2 light brownish gray grading to 10 YR 7/2 light gray 5/1 6 Snd	11ght gray mottles of the brown and 10 Mm 7.5/2 11ght gray mottles seamon to abundant forame and pteropode pteropode 0-6 entimens weld: faint 10 Mm 7/4 very pale brown horizons at 25, 31 cm	6 CALC DOZE	Dry silty lutite with common forems and preropods 34 CALC GOZE IR Semi-lithified															
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SMEAR SLIDE DESCRIPTIONS - M.H.O.I. SEDIMENT CORES



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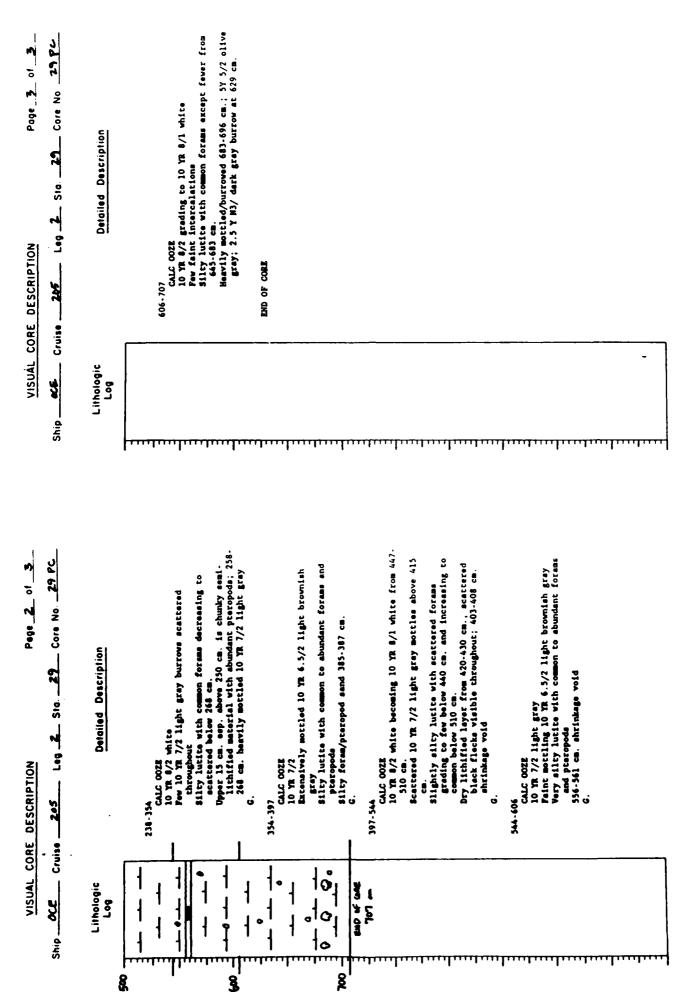
Cruise 205 Leg 2 Sta. 28 Core No 28656. G cm. Lat 26 10 10 N Long 11 12.65 W Depth 1143 cm. EXCELLENT Date Described 1304 021 by P. MILLS cotion LITTE BANANA PANK	07.0	CALC COZE 10 YR 6/3 pale brown; 10 YR 7/3 very pale brown	and 10 TR 8/2 white Scattered mottles and intercalations; also ceattered 10 YR 6/1 gray mottler Silty lutter with common forans and scattered pteropods Noist pteropod-foran rich lens from 30-32 cm.; core becomes drier and semi-lithified near base	END OF CORE															
Ship OCE Cruis Total Length 40 Core condition Ell Physiographic location Lithologic Log	9	10	No of the state of	गरम	, , , , ,	,,,,,		<u>.</u>	777	ılıı	ΠŢŦ	 777	·γ··	 լու	111	цт	TITI	l	ļ īī.
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1 1 5	2		Forest	20	8	10	9	80	2	4							П		
Core No. 25 P. Station No. 25 Total Core Length	ESTIMATED ABUNDANCES (%)		. CJ €A		9	9	16	10	2	2								П	
Cora Stat Tota	2	4	Volcanic shards													П	П	П	
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,		Ingreenic Material	Heronodules	Ę	-	Ħ	ı	£	-			 \vdash				Н	-	Н	
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1¢1cm 205			SEDIMENT	CALC 002E	CALC 00ZE	CALC 002E	CALC 002E	CALC 002E	CALC 002E	NAMMO 00ZE									
Ship: Expedition Les No.			LEVEL	6	19	150	211	295	360	433									

SHEAR SLIDE DESCRIPTIONS - M.H.O.I. SEDINENT CORES '

Page 1 of 3

VISUAL CORE DESCRIPTION

Cruise 205 Leg 2 Sta 29 Core No 29 PC 72 cm Lat 26/16/59/N Long 11/12/61 W Depth 11/79 m Lerr EXCELLENT Date Described 6/66/1971 by P. MILLS onton LITTE BAHAMA BANK Detailed Description	9-0	10 M 6/3 very pale brown	9.20 CALC COZE 10 YR 7/2 light gray grading to 10 YR 7/3 very pale brown	The section of the se	20-82 CALC 002E	Predominantly 10 YR 8/1 white but with some 10 YR 8/3 wery pale brown regions	Common 10 YR 7/2 light gray mottles and intercalations intercalations Siley little with common to abundant forces tith	Area tinged with 10 YR 8/6 yellow at 37 cm.; large burrow from 54.73 cm. 71.87 cm. 4. x11.75 cm.	sand bed	82.238	CALC 002E 10 YR 8/2 white with faint color variations toward	10 YR 7/2 light gray Scattered 10 YR 7/2 light gray burrows	Dry eilty lutite with common to abundant forans Scattered allty/eandy horizons and pockets of	prerepod higher concentration; shrinkage void 97-103 cm.	છં		1					
Ship OCE Cruise Total Length 707 c. Core condition EX Physiographic location Lihologic Log	0	10	€31 II .	9 H	1 +	1	4	ે : !		वित्वकार व	+ + +	1	1	0	0	10	2 - 084	1			- - - - -	
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Ship: OCE Expedition 205 Leg No. 2			SEDIMENT TYPE	CALC 002E	CALC 00ZE																	
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SHEAR SLIDE DESCRIPTIONS - M.H.O.I. SEDINENT CORES '

Poge 1 of 1.

Cruise 265 Leg 2 Sto. 29 Core No 29 PG. 57 cm. Lat 26 18-59 N. Long 17-12.67 W Depth 1149m corr. EXCELLENT Date Described 5FEB 1991by P. MILLS. Incation LITTLE BANAMA ANNIK	0.46 CALC DOZE	10 YR 7/2 light gray and 10 YR 7/3 very pale brown Few 10 YR 7/1 light gray mortles	1 1 3 1	Silty lutite with common forans	END OF CORE																	
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Ship: OCE Expedition 205 Leg No. 2			SEDIMENT TYPE	CALC 00ZE	CALC 002E	CALC 002E	CALC 00ZE	CALC 002E	CALC OOZE	CALC 002E	CALC 00ZE	CALC OOZE										
Ship: Expedit			TENET	7	8	170	310	380	480	280	650	706) 						

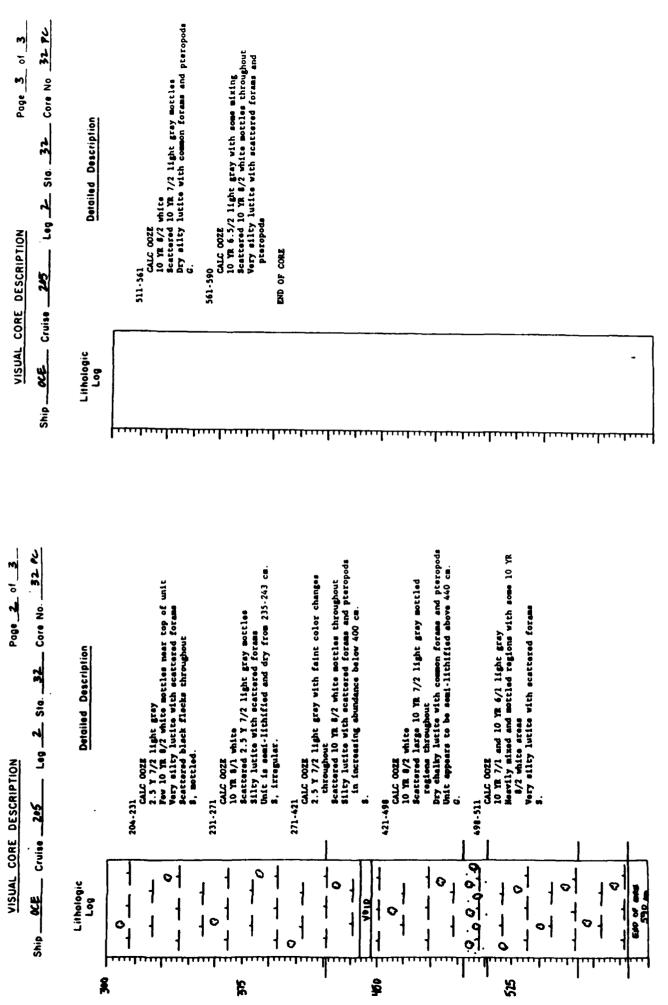
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Page 1 of 1.

205 m. Lot 26 (CELLENT	Detailed Description	7.0	0-4 cm. shrinkage void	4-6 CALC OOZE 10 YR 7/2.5 light gray \$11ty lutite with common to abundant forans \$. \$. Alto ooze	10 YR 7.5/1 light gray Few 10 YR 7/2 and 7/1 light gray mottles Silty lutite with common to abundant forms	Small 10 YR 7/8 yellow feature near base of core	END OF CORE													
Ship OCE Cruise Total Length 21 cl Core condition By Physiographic location Lithologic	Colonia	250	 	to to to to to to to to to to to to to t	CAN OF CALC	ļ····	11	· · · · ·	7111		1111	1111		-	·····	· · · · · · · · · · · · · · · · · · ·	,		т т	
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OCE 205	٦		<u></u>	SEDIMENT TYPE	CALC OOZE	CALC OOZE														
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SHEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES '

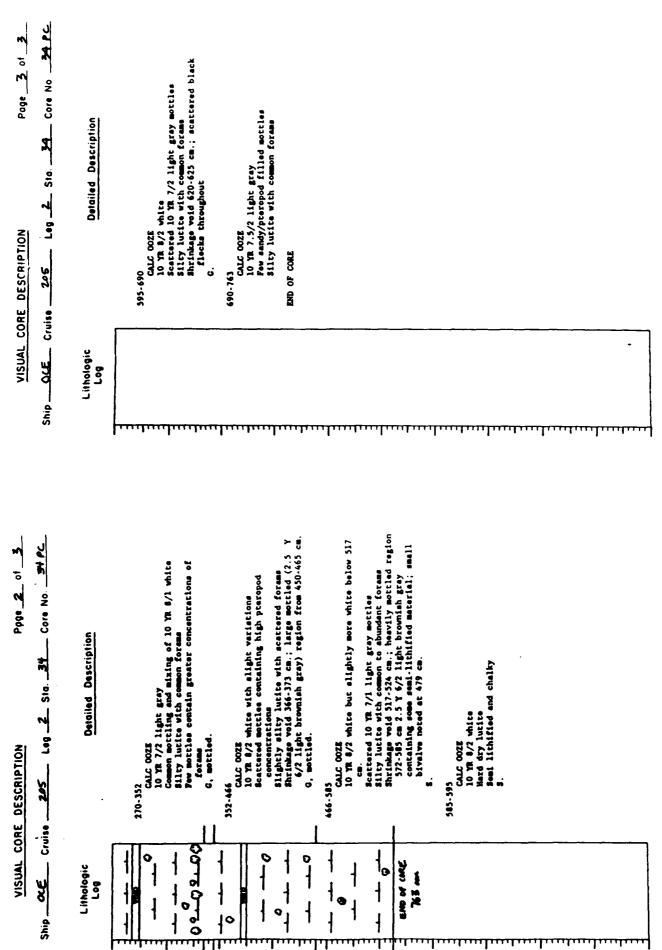
CORE DESCRIPTION	Cruise 205 Leg 2 Sta 32 Core No 32 PC. 20 cm. Lat. 26' 11.05' N. Long 17'38.93 W Depth 663 m Leg. EXCELLENT Date Described 26' 124' 170' by RMILLS otion LITTLE BAHAMA BANK. Detailed Description	0-23 CALC 00ZE 10 YR 8/3 very pale brown	Silt to fine and 0-11 cm. shrinkage void 5. 23-31 CALC 002E 10 YR 7/1 light gray Silty lutite with common forans and some sand of above unit	on .	31.68 CALC DOZE	Common 10 YR 7/2 light gray mottles below 70 cm. Dry silty lutite with abundant forass \$, mottled.	88.157	2.5 Y 7/2 light gray but 2.5 Y 7/4 pale yallou from 105-125 cm.	Scattered 10 YR 8/2 white mottles above 105 cm. Very silty lutite with abundant forans and	scattered pteropods Shrinkage void 134-142 cm.; common black flecks below 145 cm.	S, conceve upward.	157-204 CALC 002E	Very silty lutite with abundant forest becoming common halow 180 cm	Common black flecks above 165 cm.					
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SHEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES	Ship: OCE Expedition 205 Leg No. 2		SEDIMENT TYPE	CALC 002E	CALC 002E														
	Ship: Expedit_ Leg No.		LEWEL	^	22														



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CORE DESCRIPTION	cm. Lat. 26 18 26 N Long TI'41-47 W Depth 783 m mm.	HITTLE BOWNA GANK	Deteil		CALC OOZE	Vary pale brown (10 YR 7/4) Scattered mottling	silty lutite 0.7 cm; empty due to settling of material; top 1/4	10-43 CALC GOZE White (10 YR 8/1) Paint mottaling	Silty lutite Scattered areas of bluish material	ဖ်	43-224 CALC 002E	White (10 YR 8/1), but faintly lighter than above meterial	Faint mottling Silty lutite, with some sand	150-155 cm.; void due to settling of meterial. 43- 70 cm. appears to be a color transition zone	into lighter material below	END OF CORE					ì						
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SHEAR SLIDE DESCRIPTIONS - M.H.O.I. SEDINENT CORES		300E	Expedition 205	b				SEDIMENT	CALC OOZE	CALC DOZE	CALC OOZE	CALC 00ZE	CALC 002E	CALC 002E	CALC DOZE	CALC OOZE	CALC 002E	CALC 002E	CALC 002E	CALC 002E							
		SATP	Exped	Leg Ro				LEVEL	12	27	09	120	185	220	255	360	460	505	240	589							

CORE DESCRIPTION	Cruise 265 Leg 2 Sta 34 Core No 34 PC. 763 cm. Lat. 26.19.29 N. Long 17'41.43 W Depth 769 cm. EXCELLENT Date Described 6F64 191 by P. MILLES tocation LITTLE BANKING MANK.		Moist silt/fine sand with abundant foress 0-5 shrinkage void 8, concave upward. 19-28 CALC GOZE 10 YR 7/2 light gray Few faint 10 YR 8/3 very pale brown mottles	פינו יינור פינו כמשפט ומושו	28-51 GALC GOZE	10 YR 8/3 very pale brown grading to 10 YR 8/2 white	Silty moist lutite with abundant forams S.	51-183	CALC GOZE 10 YR 7/2 light gray	Common to extensive 10 VM 6.3/2 light gray mottles Silty lutite with common forms Corrected black flatte boots	below 140 cm; irregular force send layer at 170 cm; whithlede void 60.63 cm.	٠		_1	Shrinkage void 214-223 cm.					1	
VISUAL CORE	Ship OCE Cruise Total Length 76.3 c Core condition Ex Physiographic location Lithologic Log	† † † † † †	§	 		 - 	3	diox	 	 	ار ا ا ا	8.] {	o	ans.	 	·]···	3	•	 	
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SHEAR SLIDE DESCRIPTIONS - N.H.O.I. SEDIMENT CORES	Ship: OCE Expedition 205	A 118	Secretary Secret	2		CALC COZE 1	CALC 00ZE 1														



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Ship OCE Cruise 205 Leg 2 Sto 34 Core No 34 PCr Total Length B1 cm. Lat 26 13.29 M Long 77 41.45 W Depth 769 m cm. Core condition EXCELLENT Date Described 1779 179 by 2 MILES Physiographic location LITTLE BANAMA BANK Lithologic Log Log	20 ONE OF THE PERSON		0	1		So Coke	END of Call	•	····			•	 	· · · ·		7111		,,,,,			
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Ship: OCE Expedition 205 Leg No. 2		SEDIMENT TYPE	CALC 002E	CALC 002E	CALC 002E	CALC 002E	CALC 002E	CALC DOZE	CALC 002E	CALC 002E	CALC 002E	CALC 002E	CALC DOZE								
Ship: Expediti		LEVEL	9	23	0\$	130	230	320	420	515	290	650	762								

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VISUAL CORE DESCRIPTION

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES '

ORE DESCRIPTION Page 1 of 4	Cruise 205 Leg 2 Sto 35 Core No 35 GGC 43 cm. Lat 26 13 47 N Long 17 42.25 WDepth 201 mm. EXCELLENT Date Described 27 3W Miby P. MILL 5 ocotion Detailed Description	0-6 CALC 002E 10 YR 6/3 pale brown From 10 YR 7/3 ware selection	\$31ry lutite with common forms 6-22 CALC GOZE 10 YR 7/2 light gray Scattered 10 YR 7/5 yellowish brown regions Very silty lutite with common forms and visible	preroped frage.	22-43 CALC 002E 10 YR 7/2 11sht grey	Very faint 10 YR 7/1 light gray color changes Silty to sandy lutite with common to abundant	forms and preropod fragments 39-43 cm. semi-lithified	auty at and	END OF CORE											
VISUAL CORE	Ship OCE Cruis. Total Length 43 Cos condition Physiographic location Lithologic Log	1 1 1					777	****	7**	1111	· • • • • • • • • • • • • • • • • • • •		, , , ,	ŋr	- Tri	7777	111		لىن	 ,
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CORE DESCRIPTION	28 G. L.	Hon LITTLE MINNA BANK		<u></u>	CALC GOZE	\$11t/fine calcareous sand 0-4 cm. shrinkage void 8.	CALC 002E 10 YR 72 white with many faint color changes Few widely scattered mottles 10 YR, 10 YR 7.5/2 and 7.5/3 very pale brown	Silly lutite with common foress and common pteropods	Upper 6 cm. of unit is 10 NR 8/1 white; several very silty/sandy horizons of increased pteropod	concentration throughout	103-193	10 YR 8/1.5 white	Silty lutte with common forms and pteropods	Scattered black Liecks becoming common below 220 cm.	G, mottled.	193-232 GALC 002E	Extensive 10 YR 7.5/1 white mottling	Staty lutite with common forams and preropods Scattered black flacks becoming common below 220	C. mottled.	7232-369	CALC OOZE 10 YR 8/2 white but slightly pinkish above 300 cm.	Common large 10 TM //2 light gray sandy mottles Very silty lutite with common to abundant forens	and preropods 306-309 shrinkage void				
VISUAL	Ship OCE Cr Total Length 762.	Physiographic location Lithologic	0 100	1		101	8 6	†		101	10	0	 	3	101	} } ••••	C	1	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \)	8	3	10		3+ + + +	500	
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SHEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIPENT CORES	90 80 80	205	7			SEDIMENT	Ĕ	CALC GOZE	CALC OF ZE	CALC 002E																	
	SA 19:	Expedition	Leg Mo.					ļ -			-					⊢			\vdash		\vdash		\rightarrow	_			

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Core No 36 PC Page 2 of 2

Leg 2 S10. 36

VISUAL CORE DESCRIPTION

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Calcareous Material 15 20 20 20 20 9 2 219410 9 20 762 Priscoss ters ESTIMATED ABUNDANCES (X) Pteropods ~ 4 7 • ^ 9 • ~ 36 PC ۶, Total Core Length 6,3 8 59 63 Š 39 \$ 97 77 8 Mannofossils Station No. 8 2 2 2 2 2 8 2 8 Forans Core No. 9 -4 • • 2 Clay 90 80 Ingraanic Material Silt & Sand sputtys Volcanic seritoez -3 Ĕ Ŧ TR æ Ë HI Cronodules Saterg Saterg 똕 205 SEDIMENT CALC 00ZE CALC 00ZE CALC 00ZE CALC 002E CALC 00ZE CALC 002E CALC 002E CALC 00ZE CALC 002E CALC 002E OCE TYPE Expedition Shtp: Leg No. LEVEL 210 30 517 500 192 9 20 165 900 700 CALC GOZE

10 YR 8/2 white

Scattered groups of 10 YR 7/2 light gray and 10 YR
7/3 weep pale brown mottles

\$11ty lutite with common to abundant forms;

scattered regions of increased pteropod
concentration occasionally in horizontally
orianed structures

Common black flecks throughout; \$60-580 cm. and
735-762 are heavily mottled and mixed regions of
2.5 % 6/2 light brownish gray lutite containing
small white flecks 10 TR 7.5/2 white Common 10 TR 7/3 wary pale brown sottles 5ilty lutite with common forans 6, mottled. Detailed Description CALC DOZE END OF CORE 443.762 369-443

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Siliceous

Ship: OCE Expedition 205 Expedition 205 Expedition 205 Expedition 205 Core No. 36 PC Core No. 36 PC Total Core Length 102 Core No. 36 PC Total Core Length 102 Core No. 36 PC Total Core Length 102 Core No. 36 PC Total Core Length 102 Core No. 36 PC Total Core No. 36 PC Total Core Length 102 Core No. 36 PC Total Core No. 36 PC Total Core No. 36 PC Total Core No. 36 PC Total Core Length 102 Core No. 36 PC Total Core N	2 N	45 CALC 002E 1 9 10 48 8 20 4	96 CALC 002E 3 5 15 45 15 10 7											
الرائج ال	Silty lutite with common forms and increasing preropods down section Several 10 72 7/4 wayy pale brown morries whose 18	Ca. S.	75-102	CALC GOZE 10 TR 8/3 very pele brown Scattered 10 T/1 light gray mottling	percepted percep	,	10Z orn END OF CORE		*****	•		.,,		

SMEAR SLIDE DESCRIPTIONS - M.H.O.1. SEDIMENT CORES

Pqge 1 of 1

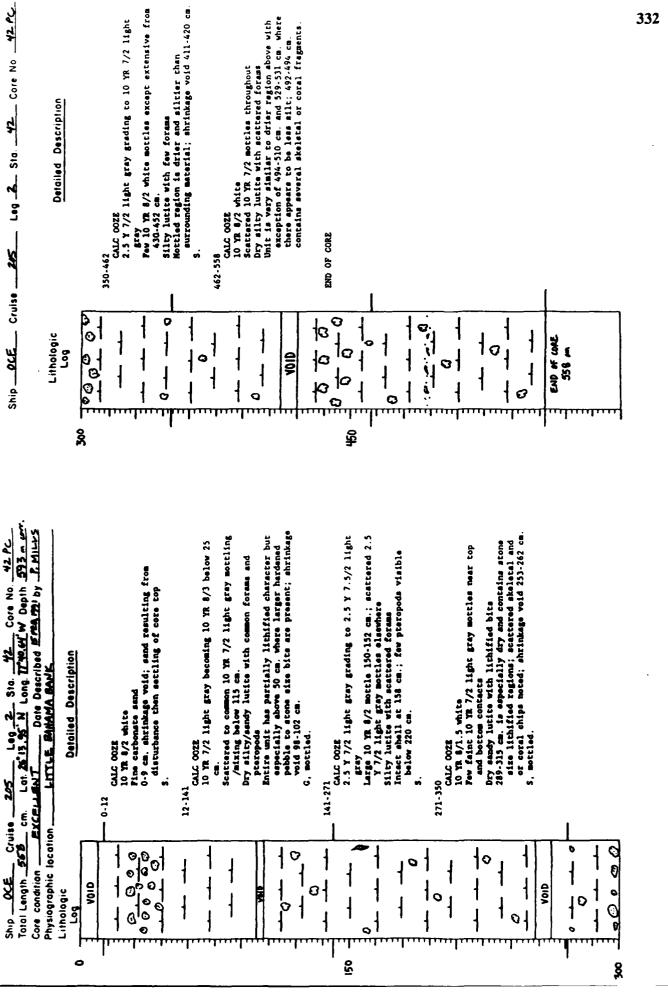
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CORE DESCRIPTION	Cruise 265 Leg 2 Sto 36 Core No 36 Crace Core No 37 Crace Core N	0-20 CALC COZE 10 TR 7/2 light gray 10 TR 7/2 light gray mottles below 6 cm. Few fairt 10 YR 7/1 light gray mottles below 6 cm. Silty moist lutite with common to abundant foress and pteropods 0-2 cm. more 10 YR 7/3 very pale brown	END OF CORE														
VISUAL	Ship OCE Cruis Total Length 20 Core condition Physiographic location Lithologic Log	1 1 1 10 1	Bio of use	1	*****	ىلىن	111	····t·	 ····I	لتبين	, , , , , , , , , , , , , , , , , , , 	l	L	1,	. 11111	1,,,,,	
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SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

SHEAR SLIDE DESCRIPTIONS - M.H.O.1. SEDIMENT CORES

Page 1 of 1



Poge 2 of 2

VISUAL CORE DESCRIPTION

Page 1 of 2

VISUAL CORE DESCRIPTION

Cruise

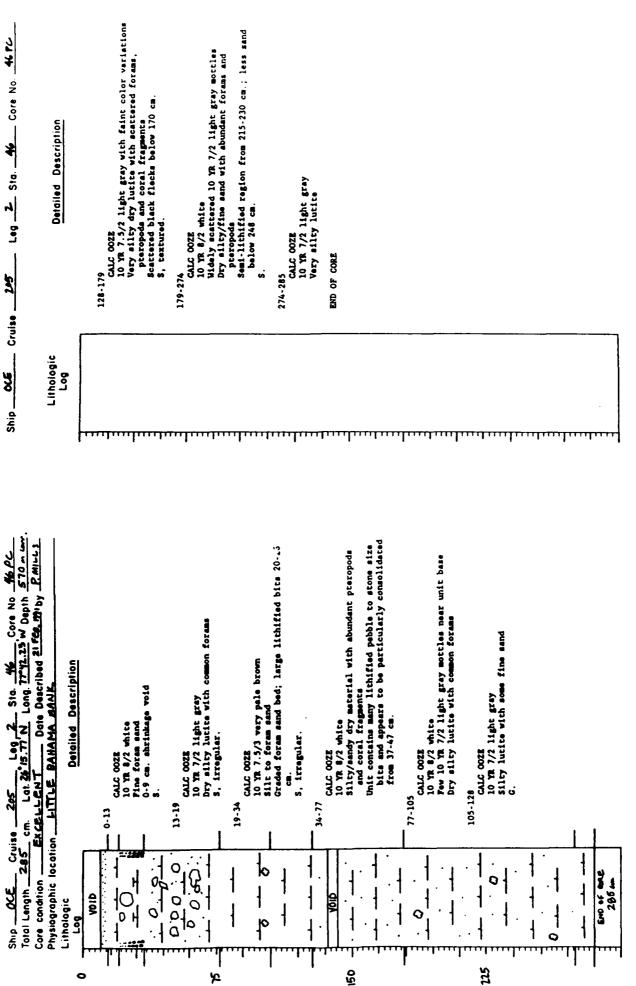
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VISUAL CORE DESCRIPTION	Cruise 285 Leg 2 Sto. 43 Core No. 43 466C cm. Lat. 28.16.83 N Long. 71.42.21 W Depth 479 m. cor. EXCELLENT Date Described 25 FB. 1971 by P. MILLS. cation LITTLE BANAMA BANK	Detailed Description	- 0.29	CALC 002E 10 YR 8/1 white but slightly pale brown above 3	Silty lutite with common forans Some pteropods and coral or skelatal fragments noted. END OF CORE																			
VISUAL	Ship ACE Cruise Total Length 29 Core condition EX Physiographic location	Log Log	1	-{ 		•••	150 A CAR.	1111			****	411	m,	1	****	,		111	7777	7**	1111	لس	· · · ·	ιŢτ
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SMEAR SLIDE DESCRIPTIONS - M.H.O.I. SEDIMENT CORES		1.		Inorganic Material	festrase anisag	╁╌	L		-			1												
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	Shfp:	Leg No.			LEVEL	01	90	200	310	007	\$00	557												

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Page 2 of

VISUAL CORE DESCRIPTION

Page 1 of 2

SMEAR SLIDE DESCRIPTIONS - N.H.O.I. SEDIMENT CORES

Cruise 265 Leg 2 Sta. 48 Core No 48 BC. 2 cm. Lat. 26 M. 12 L. M. Long. 11 M. 65 W Depth 575 m. core Excellent Date Described 6964 91 by P. MILLS ation Detailed Description	0.22	CALC COZE 10 YR 7/2 light gray with some brown above 8 cm.	Silly fulle with, soundant foress and some preropods Shrinkage void 0.2 cm.	END OF CORE																			
Ship OCE Cruls. Total Length 22 Core condition Physiographic location Lithologic Log	1	 	1	END OF UNE	# #	1111	1111		· · · · · ·	7777	ļm	-TI	ىلىن.	-111	ļm	गा		****	111		لس		Trum.
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Ship: OCE Expedition 205			SEDIMENT	17.96	CALC 00ZE	CALC 002E	CALC 00ZE	CALC 002E	CALC 00ZE	CALC 00ZE	CALC 002E	CALC GOZE											
Ship: Expedit			I JA		01	2	79	06	115	160	240	284											

cm. Lat. 245 Leg 2- Sto. 50 Core No 50 BC.

cm. Lat. 25.19.14 Long. 1741.81 W Depth 817 cm.

EXCELLENT Date Described 482.91 by P.MILLS CALC COZE
10 YR 7/2 light gray and 10 YR 7/3 very pale brown
81lty lutice with common forams and pteropods
0-1 cm. shtinkage void
8. Page 1 of 1 CALC GOZE
10 YR 8/1 white
Common 10 YR 7.5/1.5 light gray mottling
Silty lutite with abundant forans and common
preropods
Regions of 10 YR 7/6 yellow lutite above 13 cm. LITTL BAHAMA BANK Detailed Description VISUAL CORE DESCRIPTION END OF CORE Cruise 265 8-38 Total Length 36 cm. 9-0 Core condition B Esp of ore. 8 $\boldsymbol{\mathcal{B}}$ Ship OCE 2 Ø O R 9 В 0 Spondes Biogenous Material
Calcareous (Siliceous atrafotbaR Ę emots i G en set 10 8 23 Discoasters ESTIMATED ABUNDANCES (X) Total Core Length ____22 SPEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES 2 Pteropods Station No. 48 2 f i zzoTonnsN 9 8 Core No. 2 2mg-10-1 2 2 CISA Spienic Inorganic Material Silt & Sand Sealfloss Ĕ Mi cronodu jes Detrital grains Ĕ Expedition 205 SEDIMENT CALC 00ZE CALC OOZE TYPE 20 Shtp: Leg No. LEVEL 7

SMEAR SLIDE DESCRIPTIONS - M.H.O.I. SEDIMENT CORES

Cm. Lot 26/7-55'N XCELLENT DOT	Detailed Description	9.0	10 YR 7/3 very pale brown	6-30 CALC OOZE 10 YR 8/1 white Few sendy sottles Slity lutte with common to abundant forams and preropods	Scattered 10 YR 7/6 yellow regions above 13 cm.	END OF CORE									-								
Ship <u>6(E</u> Cruise Total Length <u>20</u> Core condition Physiographic location Lithologic	Log	1 1	 		+	END OF LORE	1	- 11-	111	TTT:	- Tri	דןני	771	****	T	n]ı	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	7111	,,,,	1171	1111	777	7111
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Ship: OCE Expedition 205	0.			SEDIMENT	CALC 00ZE	CALC 002E																	
Shfp:Expedt	Leg No.			LEVEL	1	35		į													į		

SHEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

05 Leg 2 Sta 62 Core No 52 BC	TILE				CA1.C 002F	10 YR 7/2 light gray and 10 YR 7/5 pale brownish	yellow Some mixing of main colors noted	Silty lutite with common forans and pteropods			CALC OOZE	Siley lutite with common to abundant forans		END OF CORE												
Cruise 2.	Core condition EXCELLENT Physicaraphic location L	Lithologic	Log	Anna Anna Anna Anna Anna Anna Anna Anna	; 		 -	1 1	***		1	2	.	O QNA	 ···	 	 -	 		****	···		ग		7177	111
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	Core No.	Station No.	Total Core Length	SCTIMATED ABIMDANCES (*)	ESTAMIED AND			ş). 	re Lo)	12 8	╁╴	21												
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	Sh1p:	Expedition	Leg No.	-	_				ונאנו	_		CAL	T	73 CWF							 -					-

SMEAR SLIDE DESCRIPTIONS - N.H.O.I. SEDIMENT CORES

205 Leg	HAN STILL		0-22	CALC 002E Mainly 10 YR 7/2 light grav	Common 10 YR 7/1 11ght gray and 7/3 very pale brown mottles	######################################	END OF CORE																			
Ship OCE Cr. Total Length 22 Core condition	Lithologic	Log	+ + +	111	 	1 1	END OF CARE	***	<u> </u>		-	· · · · ·			.,,,,	ابيد	111	111		111	7711	711	ىلىن	TÎ IJ		Ţiii.
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300	Expedition 205	0				SEDIMENT TYPE		CALC 00ZE	CALC 00ZE																	
Shtp:	Exped	Leg No.				TEVEL			23				'													

SMEAR SLIDE DESCRIPTIONS - M.H.O.I. SEDIMENT CORES

EXCELLENT Dote Described 1972/5 N Depth 11400 12 EXCELLENT Dote Described 1972/9 by P. MILLE On LITTLE BRIENA BANK	Detailed Description		0.26	Filestin 10 W 7/2.5 light grayish brown with	### ### ### ### ### ### ### ### ### ##	END OF CORE																
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S3 BC	53	22	BUNDANCES (%)	Calcareous Material Siliceous	Diatoms airsioibs	39 7 20 4	50 5 20															
		22	TED ABUNDANCES (%)	급	Forens Pteropods Discossters Others Discons Biscons	20 39 7 20 4	10 50 5 20															
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	Station No. 53		TIMTED ABUN	Calcareous Materi	Forens Forens Remnofossils Discoesters Others Discons	8 20 39 7 20 4	10 50 5 20															
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		22	TIMTED ABUN	급	Forens Forens Remortossils Ofscoesters Ofscoesters Ofscoesters Statiolaria	2 8 20 39 7 20 4	12 10 50 5 20															
Core No.		22	TIMTED ABUN	Calcareous Materi	Greins Micronodules Zeolites Volcanic Shards Forans Pteropods Olscoasters Distons	2 8 20 39 7 20 4	12 10 50 5 20															

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Cruise 205 Leg 2 Sta SB Core No SBBC 3 cm Lot 26'09.89'N Long 11'43.22 Depth 1231a accordance EXCELLENT Dote Described PRC, 31 by F. MILLS			••	CALC GOZE 10 YR 7/2 11ght gray	Very silty moist lutite/foram-pteropod sand Shrinkage void 0-3 cm.	7-23 CALC COZE 10 YR 7.5/3 very pale brown Few scattered 10 YR 7/1 11ght gray and 10 YR 8/1	whice mottes Silty lutite with common to abundant forans and Pteropods		END OF CORE																
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SHEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Page 1 of 1

205 Leg 2 Sto. 1 m. Lat 25 06 29 N Long 71 CELLENT Date Describ	71117	Detailed Description	0.10	CALC COZE	1/2 ht gray above 3 cm.	10-15	10 YR 7/3 wery pale brown Few 10 YR 7/1 light gray sandy mottles	Silty lutite with comen forans	END OF CORE																
Ship OCE Total Length Core condition	Lithologic	0 Log	~ ~	•	 		••••	· · · ·	*1**		••••		т	*****	· · · · ·			···['	· · · · · ·	111	 .				1111
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Cruise 245 Leg 2 Sta 61 Core No 61 BC. 2 cm. Lat 26 07.45 N Long 17.44 82 W Depth EXCELLENT Data Date Description	0-30 GALC 002E 10 YR 7/1 11ght gray, 10 YR 7/3 very pale brown	and 10 YR 6/3 brown mixed in faint bands 1.2 cm. thick Scattered to common 10 YR 7/2 light gray mottles \$11ty lutite with common to abundant forams and pteropods 0-1 cm. shrinkage void; few 10 YR 7/5 pale brownish yellow features below 25 cm. \$, concave down	30-33 CALC 00ZE	10 YR 8/1 white Common 10 YR 7/2 light gray mottles	Silty lutite with common forams and pteropods	END OF CORE													
Ship OCE Cruise Total Length 33 Core condition Physiographic location. Lithologic Log Will	101	1 10 1	1	1		.h	TTTT	ग	1171	1	***	- Pro-	 ****	TT T	h	TT	إحت		1711
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Core No. 60 BC Station No. 60 Total Core Length	Inorganic Material Biogeomou Silt & Sand Calearense	Micronodules Zeolites Yolcanic Shards Clay	2 9 25	2 15 15 35															
Ship: OCE Expedition 205 Leg No. 2		SEDIMENT TYPE TYPE	1 CALC 00ZE	14 CALC 00ZE															

SMEAR SLIDE DESCRIPTIONS - M.H.O.I. SEDIMENT CORES

Page 1 of 2

Cruise 205 Leg 2 Sta. 62 Core No 62 PC PC cm. Lat 26.01.45'N Long 77'44.81'W Depth 1586.m.c.			0-147	10 VP 7/1 mag and brown account 10 VP 8/2 abd	from 9-15 cm. and below 135 cm.	Scattered mottling with intercalation Moist silty lutite with common forams and puteropods 0-2 cm. shrinkage wold; unconsolidated preropod sand lenses at 28-31 cm., 62-65 cm., 76-82 cm., and 146-147 cm.	147-303 — CALC 00ZE	10 YR 8/2 white Few 10 YR 6/1 graw mottles	Silty lutite with common to abundant forans and pteropode	Common horizontally oriented 10 YR 7/2 light gray features throughout; scattered 5 Y 8/3 pale	yellow regions especially 187-189 cm., 238-239 cm.; shrinkage void 195-205 cm; slity preropod	sand from 269-277 cm.	303-457	CALC GOZE 10 YR 8/2 grading to 10 YR 7.5/2 light gray	Extensive 2.5 Y 7/2 light gray mottling above 405 cm; scattered 10 YR 7/1 light gray mottling	below 405 cm. Silty lutite with common forage	Common to abundant black flecks throughout; silty pteropod sand layer from 340-356 cm.; shrinkes	void 349-353 cm.							
Ship OCE Cruise Total Length 804 c	Lithologic	Log	100		 	1 1 1	3 †	7	0	Alov	1	-	111		- - - - -		3		١٥	0	0	1	1	1	40
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	ı		ESTIMATED ABUNDANCES (X)	3	<u></u>	Zeolites Volcanic Shards Clay Forans Forans Pteropods	12 15 42 10	13 10 45 6																	
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Detailed Description S	457-756	CALC COZE 10 VE #2 white his lishers halos 600 and	Common to extensive 2.5 Y 7/2 light gray mottling	chroughous Scattered 2.5 7/2 light gray borisontal features throughout: scattered exarched sand resions	aspecially 545-550 cm., 581-587 cm., 680-688 cm.; heavily mottled 2.5 Y 6/2 grayish brown	region 660-673 cm.	756-804 CALC DOSE	10 YR 8/1 white but slightly gray Silvy lutite with abundant forest and nothers of	peeropod/foram aand Scattered black flecks throughout	END OF CORE						1						
Log Log Log	457-75	اه –	_	Scattered 2.5 Y 7/2 light gray horisontal features throughout: scattered strongs and resions	ospecially 545-550 cm., 581-587 cm., 64 cm., 64 cm., 64 cm., 64 cm., beavily mottled 2.5 % 6/2 grayish	region 660-673 cm.	756-80		۱۰.,	10 0M	0	0	Ø		10							

SMEAR SLIDE DESCRIPTIONS - M.H.O.I. SEDIMENT CORES

Page 2 of 2

Ship - 4/E Cruise - 265 Leg 2 Sto. 62 Core No 62 PC

Ship: OCE Core	lon 205	Leg No.	Ingraenic Paterial	SEDIMENT	Detrites Jane Je	3	So CALC OOZE 1													
Ship OCE Cruise 205 Leg 2 Sta. 62 Core No. 62 PG. Total Length 122 cm. Lat. 26.0245'N Long 77.41.81'N Depth 1586 m.m Core condition EXCELLENT Date Described 8.68.1711 by P. MILLS Physiographic location LITTLE BANKMA 1994.	Lithologic Detailed Description	VOID 0 0-28	101	Scattered mortality oriented changes Scattered mortling with intercelation Slightly slity lutte with scattered forems 0.3 cm. shrinkage wold	2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -	0	Suspected repenstration	So The Court of Court	SWEOTED		•••	\$ - 41.	שים סג נשוב	· · · · · ·	••••		*1*	 •	

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Calcareous Siliceous

ESTIMATED ABUNDANCES (X)

Total Core Length __ Station No. 62

Core No.

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Page t of t

Cruise 205 Leg 2 Sta. 63 Core No 63 66C. Cm. Lat. 26.05.59'M Long. 31.43/2'M Depth 1416 m corn. EXCELLENT Date Described 21 (20,19) by P. MILLS ation BANANA BANK Detailed Description	0-40 CALC GOZE 10 YR 7/3 wery pale brown 50 stratesed 10 YR 7/2 11ght gray mottles 511ty luties with common forams and preropods 0-6 cm shrinkage wold; 33-37 cm. wold (no stratigraphy missing) 6.	40-86 CAIC COZE 10 YR 8/1.5 white Common 10 YR 5/3 brown, 4/3 dark brown and 6/2 11ght brownish gray mottles 511ry lutite with common forame becoming abundant below 75 cm. Thin 10 YR 7/4 wary pale brown region at 42 cm.	86-110 CALC OOZE 10 YR 7/4 and 10 YR 8/3 very pale brown Very silty lutite to foram sand with abundant pteropods Shrinkage void 105-115 cm.; unit contains several beds of almost exclusively pteropod sand; beds are 4-8 cm. thickness on average. END OF CORE	•	
Ship OCE Cruis Total Length 210 Core condition El Physiographic location Lithologic Log	1010	0 0 0		END OF GREE	
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Volcanic Shards Clay

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Biogenous Material
Calcareous Siliceous

Inorganic Material Silt & Sand

SEDIMENT

LEVEL

TPE.

ESTIMATED ABUNDANCES (X)

Total Core Length __

Core No.

Expedition 205

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SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Page 1 of 1

VISUAL CORE DESCRIPTION	Ship OCE Cruise 205 Leg 2 Sto. 67 Core No 67 BC. Total Length 21 cm. Lat 26'09.25'N Long 17'44.40'W Depth 1292 m. core condition Core condition EXCELLENT Date Described 13PE-13t by P. MILLS Physiographic location Lithologic Lithologic Log Log Log Log Log Log Log Lo	10 YR 6/2 light brownish gray 10 YR 6/2 light brownish gray 311cy lutite/forem-pteropod sand 0-1 cm. shrinkage void 6. 3-31 CALC GOZE 10 YR 7/3 vary pale brown Scattered 10 YR 7/1 light gray and 10 YR 8/2 white morties 511cy lutite with common to shundant forms and 511cy lutite with common to shundant forms and	So proropods E.D. of cone. The cone. END OF CORE		
VISUAL CORE DESCRIPTION	Ship OCE Cruise 205 Leg 2 Sto. 660 Core No. 66 666. Total Length 6 cm. Lat 26 09.24 N Long 77.44.51 W Depth Mos new. Core condition Not 5FLIT Date Described by Physiographic location Little Britama Bank. Lithologic Detailed Description	NOTE: CORE IS IN STORAGE BUT REMAINS UNSPLIT.			

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Cruise 245 Leg 2 Sto. 65 Core No 66 BC. cm. Lot. 25' 10.72' N. Long. T7'83.95' W Depth 12.02 m.cm. EXCELLENT Date Described II PEC, 31 by P. MILLS. otion LITTLE PANAMA PANK	0-29	CALC COZE 10 YR 7/3 wery Dale brown with some light grav	above 8 cm. Few 10 YR 7/1 light gray mottles at 10 cm.; few 10 YR 8/2 white mottles below 25 cm. Silty lucite with common to abundant forms and near-monda	Preropods very abundant near core top END OF CORE																	
Ship OCE Cruise Total Length 29 c. Core condition EX Physiographic location Lithologic	1	1	2	 	100	200 of total	1711		****		η	.111	···I	111	TT.	.1.	 7777	7,,	1111	لتب	 ·Į·
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Ship: OCE Expedition 205 Leg No. 2			SEDIMENT	X	CALC 002E																
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SHEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDINENT CORES

Page 1 of 1.

Cruise 265 Leg 2 Sto. 12 Core No. 12.BC. cm. Lat 26.18.47.N Long 17.42.11 W Depth 908 EXCELLENT Date Described 11.86.91 by P. MILLS cation LITTLE BANAMA BANK.		0-14 CALC 002E	10 YR 7/3 wary pale brown with 10 YR 7/2 11ght	Easy and to the control bands Few percepted filled mottles noted Silty lutite with common to abundant forans and prerepted 0-3 cm. shrinkage void 8. 14-41 CALC GOZE	10 YR 8/1 white Scattered 10 YR 7/1 light gray mottles	Silty lutite with common to abundant forams and pteropods	Very pale brown 10 YR 7/4 bands above 21 cm. containing some large pteropod tests		END OF CORE													
Ship OCE Cruise Total Length 41 c Core condition EX Physiographic location. Lithologic Log	Z Veid	•	3		0 	 	10	\$	44 ST COLE	· · · · · · · · · · · · · · · · · · ·	Hir	1111	••••	 1111	.tr	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	•	T '''	,,,,,,	1117	, TTT	11111
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9 9	5	ESTIMATED ABUNDANCES (%)	3	2 f t 2 20 YoungM	35	9																
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Ship: OCE Expedition 205				SEDIMENT TYPE	CALC DOZE	CALC 002E																
Ship:Expedit				LEVEL	-	28																

CORES
SEDIMENT
- W.H.O.1.
SCRIPTIONS
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VISUAL CORE DESCRIPTION	Cruise 265 Leg 2 Sta 75 Core No 7566C.				0.124	CALC COZE 10 TR 8/1 white	For widely scattered to TK 0/2 white sorties Dry silty lutte with common forans 0-11 cm. shrinkage void; unit becomes grittler and shows greater pteropod concentration below 90 cm.	G, mottled. 124-145 GALC GOZE	10 YR 8/2 white Heavily mixed and mottled with 10 YR 8/1 white	Very silty/sandy lutite with abundant forams and pteropods	END OF CORE							1									
VISUAL C	101	Physicaraphic location	Lithologic	Fog	200	1	10	 - -	· 	-		 	 	. - 	· · · · · · · · · · · · · · · · · · ·	 - -	 	, , , , , ,	0.0	6.00	ED # 846	Æ ₹	111	-т-г	لس	 	ıĮτ
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SHEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDINENT CORES

VISUAL CORE DESCRIPTION	Cruise 266 Leg 2 Sto. 76 Core No. 76 BC. 31 cm. Lot 26 15.93 N Long 11.29 W Depth 529 m cm. EXCELLENT Dote Described IPEC 91 by P. MILLS ocotion LITTLE BAHAMA BANK Detailed Description	0.37 CALC COZE CALC Faintly 10 YR 2/3 years nale	END OF CORE																
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SMEAR SLIDE DESCRIPTIONS - M.H.O.I. SEDIMENT CORES

Page 1 of t

Cruise 205 Leg 2 Sto. 93 Core No. 93 44C. S cm. Lat. 25'5E-50'N Long. 71'90.60'W Depth 1284	0.152	CALC GOZE 10 NR 8/1 white with many color variations toward	10 YR 7/1 light gray and 2.5 Y 7/2 light gray Very silty lutite with scattered to common forms Top of core is 10 YR 7/3 very pale brown; unit contains several sandy regions especially from 26-28 cm., 52-59 cm., 108-122 cm.; 0-3 cm. ehrinkage void; 112-119 cm. shrinkage void 0.	CALC OOZE 10 YR 8/1 white becoming 10 YR 7/2 11ght gray	Delow 210 cm. Common to extensive small 10 YR 6.5/3 gray and 10	YR 6/4 light yellowish brown mottles Silty lutite with acettered foreas and pteropods	Few sandy pteropod filled mottles	• END OF CORE		1		1 _		- 4								
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SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

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Cruise 265 Leg 2 Sto. 94 Core No 94 JPC. Com. Lot. 25° 36.66' N Long 17° 41.36' N Depth 1249 m mm. EXCELLENT Date Described 14NN 91 by P. MILLS cation 68EAT BAHAMA BANK	Detailed Description	0:30		10 YR 7.5/1 light gray Scattered 10 YR 7/2 light gray and 10 YR 8/1 white	mottles Silty lutite with common forans Shrinkage void 18-26 cm. G.	CALC OOZE 10 YR 8/2 white Extensive 10 YR 4/3 dark brown moreline	Smooth lutite with scattered forms Black flecks scattered throughout	Š	46-99 Calc 002E	10 YR 8/3 wery pale brown becoming 10 YR 8/2 white below 70 cm. With mixing noted below 68	Com. Screening black marries	Silty lutite with sandy regions containing abundant forms	°C.	99-223 CALC 002E	Mainly 10 YR 8/2 white Scattered black fleeks below 155 cm : common 2 5 V	6/2 light brownish gray mottles, some sandy helow 200 cm	Very sendy lutite with abundant forans Unit contains many sendy horizons ages should	2.57 8/3 pale yellow forem sands; shrinkage void 173-181 cm.	ó					1		
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VISUAL CORE DESCRIPTION

Leg 2 Sta. 91 Core No. 943PC

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Ship: OCE Core h Expedition 205 Static	Silt & Sand	Detrital Micronod Allocatic Allocatic Salitas Allocatic Salitas Allocatic Salitas Allocatic Salitas Allocatic Salitas	CALC 002E TK 2	75 CALC 002E 1 2	170 CALC 002E 1 2 260 CALC 002E 1 2		513 FORAM SAND	600 CALC GOZE TR										
Detailed Description	A.23-30, A.22-30, A.22-30, A.23-30, A.34-30, A.3	367-435 CALC GOZE/FORAM SANDS 10 YR 8/1 white Common large 2.5% 6.5/2 light brownish gray mottles above 415 cm.	Smooth lutite with common forms and preropods above the andy mottes with forms, and preropods above 104 and the property from	414-429 cm.	435-614 CALC OOZE/PORAN SANDS	rrecommently to in a/L:3 white Common 2.5 % 6.5/2 light gray mottles throughout Silty to sandy limits with common to abundant	forems Unit contains many large amorphous 2.5% 8/3 pale	yellow sandy regions especially between 510-530 and 560-585 cm.; shrinkage void 460-4'9 cm.	END OF CORE									
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ESTIMATED ABUNDANCES (X)

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94 JPC

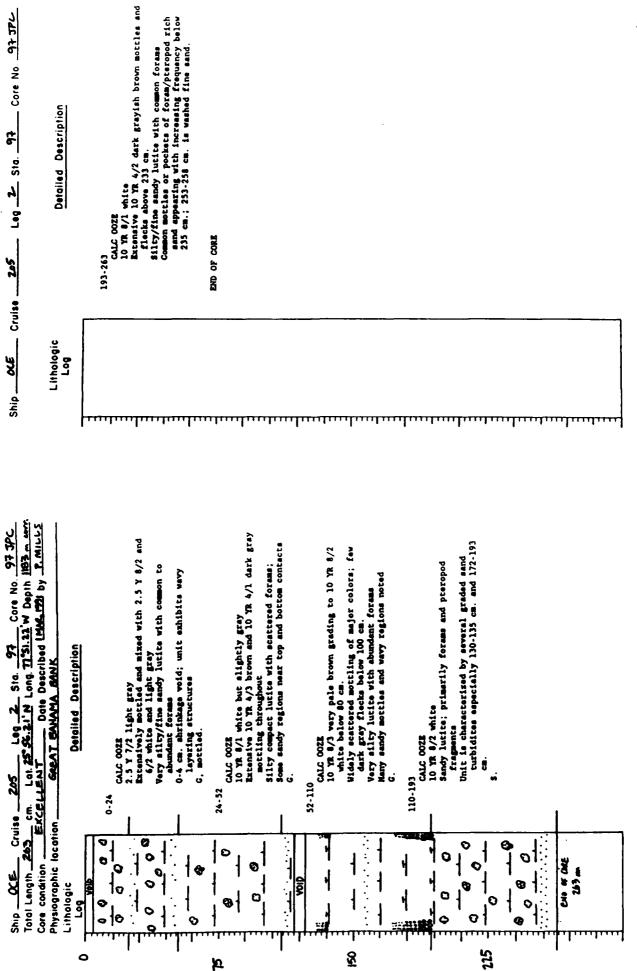
SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Page 1 of 1

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VISUAL CORE DESCRIPTION	Cruise 205 Leg 2 Sto. % Core No 96 666. Cm. Lat. 25°55. % Long. 1750.66 W Depth 1112 m arr. EXCELLENT Other Description Detailed Description	0-125 CALC 002E CALC 002E 2.5 Y 7/2 light gray and 10 YR 8/2 white with many alight color variations Common to extensive mottling of main colors and additional 10 YR 6/3 brown mottling from 75-90 Can. Vary slity lutite with several sandy horizons 0-5 cm. shrinkage woid; 5-8 cm. is 10 YR 6/4 light regions but especially notable are 55-56 cm. 97-101 cm., 110-115 cm.; few 10 YR 5/3 brown	mottles at 120 cm.; scattered black flecks throughout	END OF CORE						
VISUAL C	Ship OCE Cruise Total Length 125 c Care condition EM Physiographic location— Lithologic Lag	01 10 1 01	0 0	100		0 0	E40 of CAR.	************	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
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SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES



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Core No 97 JPC Page 2 of 2

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Leg 2 S10.

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VISUAL CORE DESCRIPTION

Page 1 of

VISUAL CORE DESCRIPTION

Cruise 205

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SMEAR SLIDE DESCRIPTIONS - M.H.O.I. SEDIMENT CORES

Page 1 of 1

Cruise 205 Leg 2 Sto. 71 Core No 71 FM 5 cm. Lat. 25°55.21 N Long. 11°51.22 W Depth 1183 m. serv. EXCELLENT Date Described 21 FEA. 170 P. MILLS cation GREAT BAHAMA AANK	acitainae C. Letiote C.		0.26		Aight gray Common 2.5 Y 6.5/2 light brownish gray sottles Very silty/fine sandy lutite with scattered forass EMD OF CORE	1																	
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Cruise 205 Leg 2 Sto. 90 Core No. 98 GGC. 12 cm. Lot 25'58 49'N Long 78'91.26'W Depth 879 cm. EXCELLENT Date Described 4MK,131 by P. MILLS. cition SERAT BAHAMA BANK.	0-184 CALC 002E	10 YR 8/1 white	Extensive 10 TR //1 Light gray mottling throughout throughout by sallty lutite with scattered sandy regions 0-9 cm. shrinkage void; 9-11 cm. is 10 YR 6/4 light yallowish brown; unit contrains several sandy horizons but most notable are 130-137 cm. and 142-145 cm. which are washed, graded sand layers with abundant forms and pteropods; black flates are also become the same of t	G.	184-219 CALC 0028	10 YR 8/1 white Common 10 YR 7/1 1(she eray more) as	Moist silty lutite with abundant preropods and	vi	219-233 Pteropod/coral Hash	10 YR 8/2 white Cora cand best	9.	233-272 CALC 002E	10 YR 8/2 white Alternating wery silty/sandy lugits and	form/pteropod hash layers of varying thickness 233-238 cm. is primarily prespect and reserved	of unit is mixed	END OF COSE					•	
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SHEAR SLIDE DESCRIPTIONS - M.H.O.I. SEDIMENT CORES

Page 1 of 2

Cruise 205 Leg 2 Sto. 99 Core No 99 TPC. 13 cm. Lat. 25'60.91'N Long. 15'01.18' W Depth 912 m wr. EXCELLENT Date Described 25'MM. 1991 by P. MILL'S.			0.24	CALC DOZE 10 YR 8/1.5 white	O'S cm. shrinkage void S. 24-48 GALC GOZE 10 YR 7.5/1 light gray From 10 YR 8/3 very pale hyper motelles	Very silty lutite with common forans and scattered pteropods	Amorphous 10 YR 5/3 brown and 10 YR 7/4 very pale brown region above 32 cm.	·	48-220 CALC 00ZE	10 YR 8/2 white Scattered 10 YR 7/2 light gray mottling becoming	abundant below 100 cm. and mixing with 2.5 Y 7/2 1ight gray	Silty lutite with common to abundant forans 82-89 cm. shrinkage void; common black flecks	(micromodules) noted throughout; region from 160-205 cm. is very slity	Very G.	220-289 CALC 002B	2.5 Y 7/2 light gray Common 2.5 Y 6/2 light brownish gray and 10 YR 8/1	white mottles Very silty lutite with common forams and fev	pteropode; 239-247 cm. shrinkage void S, irregular.						1	
Ship 000 Cruise Total Length 373 c Core condition EXC	Lithologic	O Fog		┤ ┤ ┤ ''''	4 1 6 1	VerD	1	10100	····	0		.			8	6	10	15 mm	3 1	Void	31		- - - - -	سلس حالی	360 -1
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OCE	Expedition 205	9.			SEDIMENT	CALC 002E	CALC 002E	CALC 002E	CALC 002E																
Shtp:	Exped	Leg No.			LEVEL	14	110	200	271															i [

Detailed Description 289-341 Out cozz Numbant Large 10 TR 72 Light gray soctles above Abundant Large 10 TR 72 Light gray soctles above Abundant Large 10 TR 72 Light gray soctles above Abundant Large 10 TR 72 Light gray soctles above 135 cm. become seater of the sandy soctles increasing Large bleek fleeks grade from common to abundant Extra bleek fleeks grade from common to abundant CAC COZZ SA4-373 A41-373 A41-374 AAC COZZ Soctles and 10 TR 7/1 white Soctles a	Station No. 99 JPC Station No. 99 Total Core Length 373 cm	TIMATED ABUN	Inorganic Material Blogenous Material	C) ay	20 20 10 20 10 10 10 10 10 10 10 10 10 10 10 10 10	┼—	1 15 15 38 15 TR 15 1	1 7 20 30 15 TR 25 2	3 7 15 3 TR 66 3	1 25 15 36 7 TR 15 1						
Defolied Description OOZE (8.71 white large 10 YR 7/2 light gray mottles above for. becoming scattered and smaller below 315 h moist luttle with sandy mottles increasing ow 330 cm. Nate large 10 YR 7/2 light gray mottles toughout; small 2: 5 Y 6/4 light yellowish oughout; small 2: 5 Y 6/4 light yellowish oughout; small 2: 5 Y 6/4 light gray mottles sted 10 YR 7/1 and 7/2 light gray mottles silty lutite with abundant forams sted black flacks noted 233 244 255 256 257 258 258 258 258 258 258 258	t10m			SEDIMENT TYPE	CALC GOZE	CALC 00ZE	CALC 002E	CALC 00ZE	CALC DOZE	CALC 00ZE						
Detailed Description 289-341 CALC COZE 10 YR \$71 white Abundant Large 10 YR 7/2 Hight gray mottles above 313 cm. becoming scattered and smallar below 315 cm. 8 soch motat luttle with sandy mottles increasing below 30 cm. 1arge 9 blesk flacks grade from common to abundant throughout; small 2.3 Y \$6/4 Hight yellowish c. 341-373 CALC COZE 10 YR \$7,2 and 10 YR \$7,1 white Scattered 10 YR \$7,2 white Scattered 10 YR \$7,2 white Scattered black flacks with abundant forms Scattered black flacks noted END OF CORE	Ship: Expect			EVEL	2	35	120	250	320	370						
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SMEAR SLIDE DESCRIPTIONS - M.H.O.1. SEDIMENT CORES

Poge 2 of 2

Ship OCE Crulse 205 Leg 2 Sta. 99 Core No. 99 UPL

Ship: OCE Expedition 205	Leg No	SEDIMENT LEVEL TYPE	4 CALC 00ZE	SO CALC OOZE	106 CALC OOZE														
Cruise 265 Leg 2 Sto. 99 Core No. 99 PG. 03 cm. Lat. 25.38.73 N. Long. 15.91.15 W. Depth 912 m.m. EXCELLENT Date Described 25.006. 19.14.5 Scation GREAT EMAMA DANK. Detailed Description				Scattered andy mottles from 52-62 cm.; top of unit to those with 10 VB 2/5 and broaden		END OF CORE													
Ship OCE Cruise Total Length 10% cm. Core condition EXCE Physiographic location Lithologic Log	giox -		,	G G	6	3 ·			END OF CARE	****	***	 111		771		san'i	·***		
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Volcanic shards

Seatifes Mcronodu]es [6317390] grieng

ESTIMATED ABUNDANCES (%)

[18] Biogenous Material

Calcareous Siliceous

Inorganic Material Silt & Sand

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9

Total Core Length ___ Station No. 99

Core No.

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Page 1 of 1

Ship: OCE Core Expedition 205 Stati	SEDIMENT SEDIMENT STORES SAND STORES SAND STORES SAND STORES SAND SAND SAND SAND SAND SAND SAND SAN	Z		
Ship OCE Cruise 245 Leg 2 Sto. 100 Core No. 100 GGC Total Length 250 cm. Lat. 25'03.67'N Long. 25'st. 64'N Depth. 1053m.cm. Core condition EXCELLENT Date Described 5MM, 1791 by P. MILLS Physiographic location GGEAT BAHAMA DANK Lithologic Lat. 100 Core No. 100 Getailed Description Output Detailed Description	10,010,01		Seatures Silty lutte with common forems and scattered regions of increased preroped concentration Few widely scattered black flecks noted.	

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Discoasters

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Forems CJSY

Pteropods

Biogenous Material
Calcareous

ESTIMATED ABUNDANCES (%)

Total Core Length ___

Core No. 100 GGC

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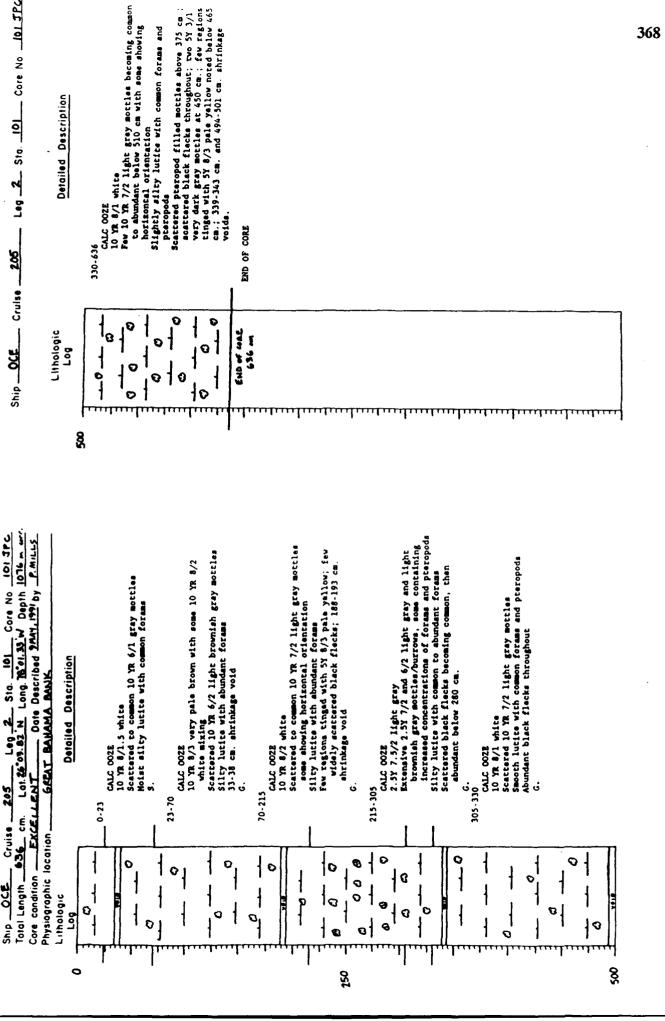
Station No.

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Page / of /

VISUAL CORE DESCRIPTION

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Page 2 of 2 - Core No 101 JPC

VISUAL CORE DESCRIPTION

Core No 101 3PC

Page 1 of 2

VISUAL CORE DESCRIPTION

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Page 1 of 1

Cruise 265 Leg 2 Sto. 101 Core No. 101 PG. Co. cm. Lot. 25'0'-52'N Long. 16'0'-35'N Depth 1016m cor. EXCELLENT Dote Described MCLM by 2. MILLS. Cotion 66257 BANAMA CANK	Petailed De		0-17 CALC 002E	10 YR 7/2 light gray and 10 YR 7/3 very pale brown Scattered 10 YR 7/1 light gray moreles	Silty lutite with common forems and scattered pteropods 0-4 cm. shrinkage void 8, 1,5	.ã≌8	extensive below 60 cm.; few 10 YR 6/4 light yellowish brown mottles scattered throughout	Silty lutite with common to abundant forams and pteropod fragments	END OF CORE				1											
Ship OCE Cruise Total Length 100 c Core condition EXC	Lithologic	Voip	0.		1011	8	} c	9	000	0 0		3	100 Pt 001	8	1	rrr	L	.11·	•••	111	 بابد	لبيد	Լոււ	141
Core No	Station No. 101	Total Core Length636 cm	ESTIMATED ABUNDANCES (%)	Inorqual Chiterial Biogenous Material	Stisse Stisse Sport	Micron Zeolita Volcen		1 2 10 65 2 15 5	1 15 15 35 10 20 4	1 10 15 41 8 20 5	1 6 10 45 5 30 3	3 10 10 43 3 25 6	TR 15 12 45 6 20 2	1 10 15 42 5 25 2										
Shtp: OCE	Expedition 205	Leg No. 2		130	SEDIMENT SEDIMENT SE	31-13-0	3 CALC 002E	SO CALC OOZE	150 CALC 00ZE	250 CALC 002E	320 CALC 002E	420 CALC 002E	520 CALC 00ZE	635 CALC 00ZE										

SHEAR SLIDE DESCRIPTIONS - M.H.C.I. SEDIHENT CORES

Page / of 1

205 Leg 2 S m. Lot. 26 04: 22 'N Lo ELLENT Dote D	84.5			10 YR 8/2 white and 2.5 Y 6/2 light brownish gray \$11ty lutite with common forems	14-120 LACC OOZE 10 YR 8/1 white Extensive 10 YR 7/3 very pale brown mottling with 10 YR 4/1 dark gay below 90 cm; also scattered 10 YR 7/3 14bf gray below 90 cm; also scattered	Sity lutte with acattered forems becoming abundant below 100 cm.	•	120-184 CALC OOZE CALC OOZE	Scattered 10 YR 7/1 light gray and 10 YR 7/3 very pale brown sottles	Silty lutite with common to abundant forams Color transition from upper unit begins at 100 cm.	184-268	CALC DOZE 10 YR 8/2 white	Common 10 YR 7.5/3 very pale brown mottles/burrows	Silfy lutice with abundant forams Scattered foram concentrations throughout	. morried	268-284 GALC 002E	10 YR 7/2 light gray Few 10 YR 8/2 white mottles containing abundant	forams Silty lutite with scattered forams	Few 10 YR 7/1 1ight gray burrows showing wavy horizontally oriented structure	EMD OF CORE			
Ship OCE Cr Total Length 204 Core condition	Physiographic location_ Lithologic	YOID		1 o 1 o		3	0	10	1	- - - - - - - - - - - - - - - - - - -	9	0	10	 	 - -	0	0	┤ < ┤ ┤	} }	ار ا ا	\ \ \	3	204 m
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SMEAR SLIDE DESCRIPTIONS - M.H.O.I. SEDIMENT CORES

Page 1 of 2

Cruise 205 Leg 2 Sta 104 Core No 104 JPC. Sex cm. Lot. 26 04:35 N Long 78:03:66 W Depth 976 m core Excellent Date Described 14MAX 1991 by P. MILLS scation GEEAT BANAMA BANK Detailed Description	0.14	32	Scattered 10 YR 7/1 light gray mottling Silty lutte with common forams and some visible preropods 0-2 cm. mhtinkage void 5, irregular 14-98	Very white	orientation at 46 mm. Sightly silv Juste with common forent	Few faint bands tinged with 57 8/3 pale yellow below 77 cm.: scattered 10 VR 6/4 leht rad	flecke above 25 cm.	98-170	CALC COZE 10 YR 8/1 white and very white as shows	Common 10 YR 7/1 light gray mottles becoming few below 140 cm.	Slightly slity lutite with common forans Abundant black fleeks throughout unit: large and	mottle at 169 cm.; shrinkage void 145.150 cm.	170-259	CALC OOZE 10 YR 8/1 white	Common very white mottles above 195 cm.;	elsewhere	Scattered black flecks throughout	7 6 5 7 6 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7		ı		ı	
Ship OCE Cruise Total Length 286 cm. Core condition EXCELL Physiographic location Lithologic Log	0	1	1 1 1	1	+ + +	1 10	•	© . 	<i>O</i>			10	;	.			1		1	100	9	GND of crust	
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Core No	ESTIMATED ABUNDANCES (X)		206101	2	80	01	8	8		-				-	-		\vdash	\dagger	-				
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Shfp: OCE Expedition 205 Leg No. 2			SEDIMENT TYPE	CALC 00ZE	CALC OOZE	CALC 00ZE	CALC OOZE	CALC OOZE															
Ship: Expedit		_	LEVEL	7	65	155	240	283					_										

SMEAR SLIDE DESCRIPTIONS - W.H.O.1. SEDIMENT CORES

Sponges Biogenous Material
Calcareous | Siliceous Radiolaria Ę 15 15 219410 20 2 30 285 Discoasters ESTIMATED ABUNDANCES (X) Pteropods Total Core Length Core No. 104 JPC Station No. 104 \$ 59 53 9 **elterofonne**M 2 2 **SMSTO7** 2 20 Clay 2 Volcanic Inorganic Material Silt & Sand 2eolites Ĕ £ M cronodules [stl-ted enterp Expedition 205 SEDIMENT OCE CALC 00ZE CALC OOZE CALC 00ZE CALC 00ZE CALC 002E YPE Ship: Leg No. LEVEL 3 210 8 284

VISUAL CORE DESCRIPTION

Ship OCE Cruise 265 Leg 2 Sta 104 Core No. 104 JFC

Lithologic Detailed Description

Log

239-285

ALC GOZE
Very white
Pew 10 YR 7/1 light gray mottles
Very white
Few 10 YR 7/1 light gray mottles
Very white
Few 10 YR 7/1 light gray mottles
Unit is most lithified near upper contact

END OF CORE

OCE COTE NO. 104 PG	Expedition 205 Station No. 104	102 Total Core Length103.	ESTIMATED ABUNDANCES (X)	Inorganic Miterial Biogenous Har	Detrital Micronodules Molcanic Seolites Volcanic Clay Torams Forams Peeropods	80	CALC 002E TR 7 10 45 5	CALC OOZE 1 8 8 40 4												
Sh1p:	Expe	Leg No.			LEVEL	3	07	102												
Ship OCE Cruise 205 Leg 2 Sta. 104 Core No. 104 PG. Total Length 105 cm. Lat. 26°04333' N. Long. 18°55.66' W Depth 916 m. cm. Core condition EXCELLENT Date Described 1994, 1931 by P. 19.1445. Physiographic location 69001 BAHAMA MAN.	Lithologic		0.17	10 Willy 7/3 wery pale brown	prescopeda 0.4 cm. shrinkage void; 11-12 cm. prescoped sand 8. 17-103 CALC DOZE 10 NR 8/3 very pale brown from 85-100 cm.		101	11ght gray mottle noted at 78 cm.	END OF CORE	0	0	# S01	 	,	· · · · ·	***	 	~·	•	

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Redioleria

Biogenous Material
Calcareous | Siliceous

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SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Page 1 of 1

VISUAL CORE DESCRIPTION

300 :	Expedition 205	No2	SEDIMENT	CALC 00ZE	CALC 00ZE	CALC DOZE	CALC 002E														
Sh(p: _	Expe	Leg No.	TEVEL	9	57	115	208														
Cruise 245 Leg 2 Sta. 106 Core No 106 GGC. 2 cm. Lat. 25 35 60 N Long. 18 10:56 W Depth 651 m correction. EXCELLENT Date Described 12 MV. 1771 by P. MILLS otton GEEAT GANAMA BANK.	Detailed Description		10 YR 8/2 white and 10 YR 7/2 light gray 10 YR 8/2 white and 10 YR 7/2 light gray Extensive mottling and mixing of main colors; scattered 10 YR 7/1 light gray mottles 31ty lutte with common forams 0.5 cm. shrinkege veid; 5-7 cm. is 10 YR 6/4 light yellowish brown; unit contains saveral 10 YR 8/4 very pale brown features meat notably at 7-9 cm. 29 cm., and 51 cm.; large bivalve shell noted at 24 cm.	76-154	10 YR 7/2.5 very pale brown	Solve 125 cm.	Shrinkage void 105-100 cm; few preropods and or	G, sortled.	154-209	10 M 8/2 white Common 10 M 7/2 light gray mottles	Very silty lutite with abundant forems and some pteropod fragments	Core is very dry and compacted below 190 cm. and shows greater slit/sand content		END OF CORE	-						
4 4 6 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1	Lithologic Loa	Qiox		0	10	atox	10	 	1	+	2 	0	1 0	1	SAID OF LORE	1 607			•		
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BineloibeA

Discoasters

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Clay

Volcanic shards

Detrital grafus Ricronodules

Seal floeS

Pteropods

Biogenous Material
Calcareous Sticeous

Ingreenic Material Silt & Sand

Total Core Length 209
ESTIMATED ABUNDANCES (x)

Station No.

Core No.

Ship: OCE Core Expedition 205 Stati	SEDIME	- F - F			
Ship OCE Cruise 205 Leg 2 Sto. 187 Core No. 187 JPC. Total Length 223 cm. Lat. 25:58.74'N Long. 18*048'W Depth 679 m.m.c. Core condition Excellent Date Described 20 OCT. Wby F. MILLS Physiographic location 68EAT BAHAMA BANK. Lithologic Log	O-14 CALC COZE 10 TR 8/1 white Very siley lutite with abundant foress and prescribeds For regions tinged with 10 TR 7/6 yellow O, irregular CALC COZE 10 YR 8/2 white Siley lutite with abundant foress	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	26. CALC COZE CALC COZE 10 TR 8/1 white 10 TR 8/1 white Scattered 10 TR 7/1 light gray mottles Scattered 10 TR 7/1 light gray mottles Scattered 10 TR 7/1 light gray mottles Scattered 10 TR 7/1 light gray mottles 167-223 167-223 CALC COZE And COZE CALC COZE Scattered 10 TR 7/1 light gray mottles Scattered 10 TR 8/1 white	13.5 END OF CORE	

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Radiolaria

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Forams

Clay

Pteropods

Biogenous Material Calcareous

ESTIMATED ABUNDANCES (X)

Total Core Length

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

VISUAL CORE DESCRIPTION

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107 JPC

107

Station No. Core No.

SMEAR SLI	Shtp: OCE	Expedition 205	Leg No.	SEDIMENT LEVEL TYPE	S CALC 00ZE	65 CALC OOZE	160 CALC 00ZE	259 CALC 00ZE											
	Cruise ZAS Leg Z Sto. 10D Core to 100 AGC. ZAO cm. Lat Z-37.22'N Long 18'18.78' Depth 143	Detailed Description		CALC GOZE 10 YR 6/3 pale brown becoming 10 YR 7/4 very pale brown near contact \$11ght mixing of main colors noted \$11ght mixing of main colors noted \$11ght withings with \$2, frregular. \$8-102 CALC GOZE 10 YR 8/1 white	Siley luttee with comeon foress becoming sore	<u>.</u> 		102-26	10 YR 8/2.5 very pale brown with alight variations Extensive 10 YR 7/1 light gray mottles becoming common than scattered below 150 cm. Very silty lutite with abundant forams and	Common 10 YR 7/2 light gray mottles from 224-234 G Cm.; scattered 2.5 Y 7/4 pale yallow features especially 151 cm. and 544	END OF CORE	10,			1	1	-		
7	Ship CE Cruise Total Length 260 cr Core condition EXC	Log	Q V	10 10 10	10	19	1 0	0	0	1 1	10	1 	 	0	1	1	250 A CAR		
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pteropods 25122010nneN

Blogenous Material
Calcareous Siliceous

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Total Core Length 260

108 GGC

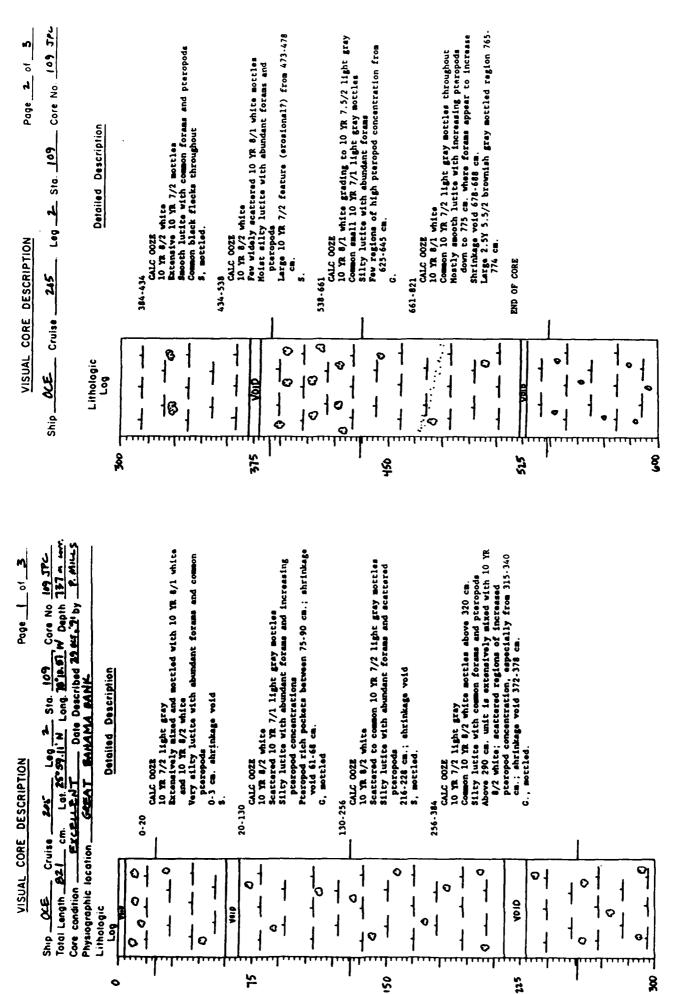
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Station No. Core No.

Indraganic Material
Silt & Sand

SMEAR SLIDE DESCRIPTIONS - M.H.O.I. SEDIMENT CORES

Page Lot



SHEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDINENT CORES

Ship OCE Cruise 265 Leg 2 Sto. 109 Core No. 109 JPC

Lithologic Log

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158 July 62.

VISUAL CORE DESCRIPTION

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Sponges

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Strafotban

Biogenous Material
Calcareous | Siliceous

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SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Page 1 of 1

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Ship: OCE Expedition 205	- con fact	Ing	SEDIMENT TYPE TYPE I STITUTE OF THE	2 CALC 00ZE	34 CALC 00ZE								
Se 265 Leg 2 Sta. 110 Core No 110 GGC. cm. Lot. 25:56.96 W Long 16 W. 15 W Depth 531 m wr. EXCELLENT Date Described 55MA,175 by P. MILLS n 68EAT BAHAMA BANK.	0.35	CALC COZE 10 YR 7.5/2 light gray grading to 10 YR 8/2 white	below 6 cm. Common 10 W 1/2 light gray mottles throughout \$11ty lucite with common to abundant forans \$11ty lucite with common to abundant forans Wuch of core below 8 cm. is marked by increasing concentration of 10 W 7/6 yellow features and scattered concentrations of coral fragments and preropods	END OF CORE									
Ship OCE Cruise Total Length 35 cm Core condition EXC Physiographic location Lithologic Log	1	10	103				 	 			 		

SMEAR SLIDE DESCRIPTIONS - M.H.O.I. SEDIMENT CORES

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VISUAL CORE DESCRIPTION

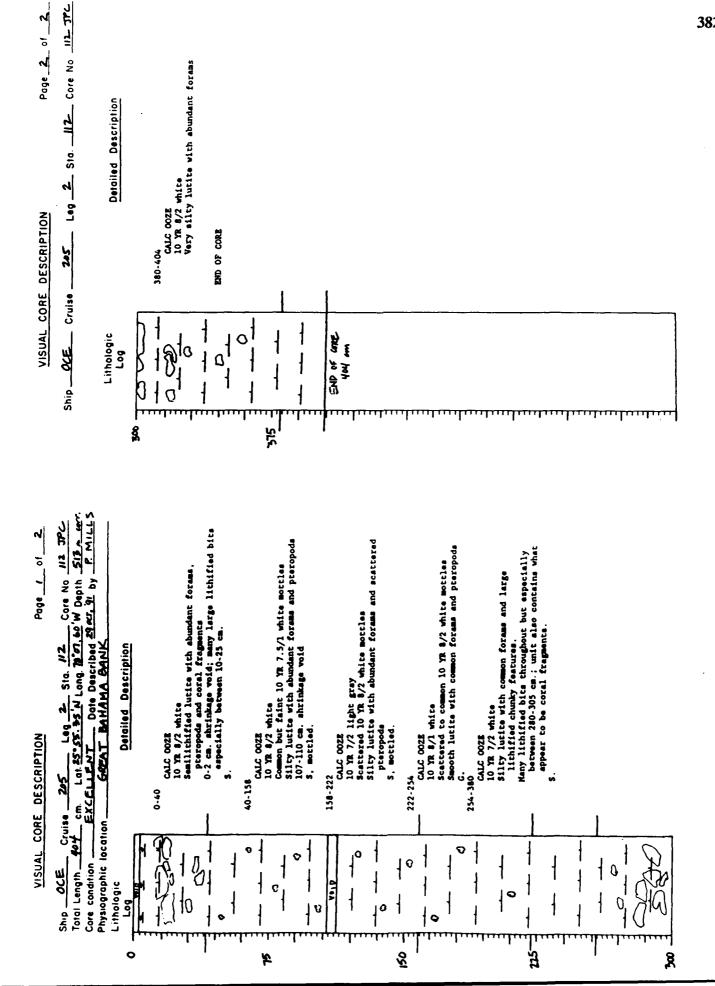
Ship OCE Cruise 245 Leg 2 Sto. III Core No. III Care Core No III Care Long Length 16 cm. Lot 23'55, 42 N Long 16'01.56'W Depth 516 m. Lore condition Excellent Date Described 4144, 1721 by P. MILLS Physiographic location 6827 BANAMA BANK Page 1 of 1 CALC COZE

10 YR 7.5/1.5 light gray
Scattered 10 YR 7/2 light gray mottles
Very silty lutite with common forams
0.4 cm. disturbed; pteropod fragments become
scattered to more common below 25 cm. Detailed Description END OF CORE 97-0 9 END # 866 Ship OCE 1 Lithologic Log 웃 R 으

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

VISUAL CORE DESCRIPTION

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		_			Sfliceous	Radiolaria		1]		Ì			
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	1	46	13	Biogenous Material	2	Discoasters														
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111 660	=	ngth	ESTIMATED ABUNDANCES (X)	٦	3	stizzotonnsk	38	42												
ı	ا چ	Total Core Length	E0 A8			2me 101	20	15												
Core No.	Station No	3	I K			Clay	10	8												
9	Sta	Tot	ES	ET E		Volcanic shards														
				Inorganic Meterial	San	2eo11tes														\dashv
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OCE	Expedition 205	02				SEDIMENT TYPE	CALC OOZE	CALC 002E												
Shtp:	Exped	Leg No.				LEVEL	4	777												
																	•			



CORES
. SEDIMENT
W.H.0.1.
DESCRIPTIONS -

CORE DESCRIPTION	205 L	GREAT BAHAM	Detailed Description		0.25	CALC GOZE 10 YR 8/2 white	END OF CORE																			
VISUAL CORE	Ship OCE Total Length 25 Core condition	Physiographic location	Liffologic Log	YOIP	3	† † †	1 9 1	3																		
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				Ę		Siliceous	Radiolaria	1-														-		\dashv	\dashv	
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EOTE	=		١.	Total Core Length	ESTIMATED ABUNDANCES (X)	1	<u> </u>	1	_		-			H	Н					\vdash	\vdash				\dashv	
).I. s	\$	į į	Station No.	5	E E	1	<u> </u>	\vdash			\vdash	\vdash					_	-	_						\dashv	
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SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES	3	1	[5	0.			SEDIMENT TYPE	CALC 002E	CALC 00ZE	CALC 00ZE	CALC 00ZE	CALC 002E	CALC 002E					· ·								
				Leg no.			LEWEL	3	100	200	240	330	395													

SHEAR SLIDE DESCRIPTIONS - M.H.O.I. SEDIMENT CORES

Page 1 of 1

VISUAL CORE DESCRIPTION

Cruise 205 Leg 2 Sta. 114 Core No 114 66C. The cm. Lat. 25: 24:31 N Long. To 66:58 W Depth 465 m cm. Not 5Pet The Date Described by Description Destailed Description		NOTE: CORE IS IN STORAGE BUT REMAINS UNSPLIT.		•										
Ship OCE Cruise Total Length 7 Core condition No Physiographic location Lithologic Log	SALIZAMIS SALIZAMIS	sinsfolbs8 sepnods			111		111			T		1		1
Core No. 112 PG Station No. 112 Total Core Length 25	Ino.ganic Material Silt & Sand Calcanous Material	Greins Meronodules Zeolites Volcanic Shards Clay	01 36 10	2 10 20 35 10 20										
Ship: OCE Expedition 205 Leg No. 2		SEDIMENT LEVEL TYPE TYPE	3 CALC 00ZE	23 CALC DOZP										

OCE Core No. 116 GGC	Station No. 116	7 Total Core Length	Inorganic Material Blogen	Detrital grains grains decronodules leolites colitanic shards Clay Clay	3 15 15 34	20 8 28 5	3 23 5 50 3	20 4 60 3												
Shtp:	Expedition_	Leg No.		SEDIMENT LEVEL TYPE	4 CALC OOZE	70 CALC 002E	140 CALC 00ZE	225 CALC OOZE												
Cruise 245 Leg 2 Sta. 116 Core No 116 GGC. 9 cm. Lat. 26:02.00'N Lang. 14:52.49' W Depth 15P4 m em. EXCELLENT Date Described Enew 91 by P. MILLS otton GREAT BANAMA BANK.	Detailed Description	· ·	CALC 002E 10 YR 7/3 wery pal Common mixing and	and 10 TR 6/3 pale brown Slightly silty lutte with common foress 0-3 cm. abrinkage wold Moderately S. CALC 002R 10 TR 5/1 white	few large 10 N 7/2 light gray mottles 59.68 cm. Siley lutite with abundant forms	Well preserved worm burrow at 84 cm.	107-208	CALC COZE 10 YR 7/3 wery pale brown becoming lighter below	1/3 cm. Scattered 10 YR 4/2 dark grayish brown mottles above 136 cm.: widely scarresed 10 vm s.s.	mottles elsewhere Silty lutite with abundant forams	Large well preserved worm burrow from 129-130 cm. Very G from 175 cm.	208-229 CALC 002E	10 YR 8/2 white Few smell 10 YR 4/2 dark grayish brown moreles	Silty lutite with abundant forams	END OF CORE					
5 6 6	ſ	Т	, 				<u> </u>	11	1					l		-		 	 	
Ship gee Cruis, Total Length 229 Core condition E2	Log	0				 -	10		1	1	1 1	19	1	1010	•		229 m			

Spondes

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Biogenous Material
Calcareous Siliceous

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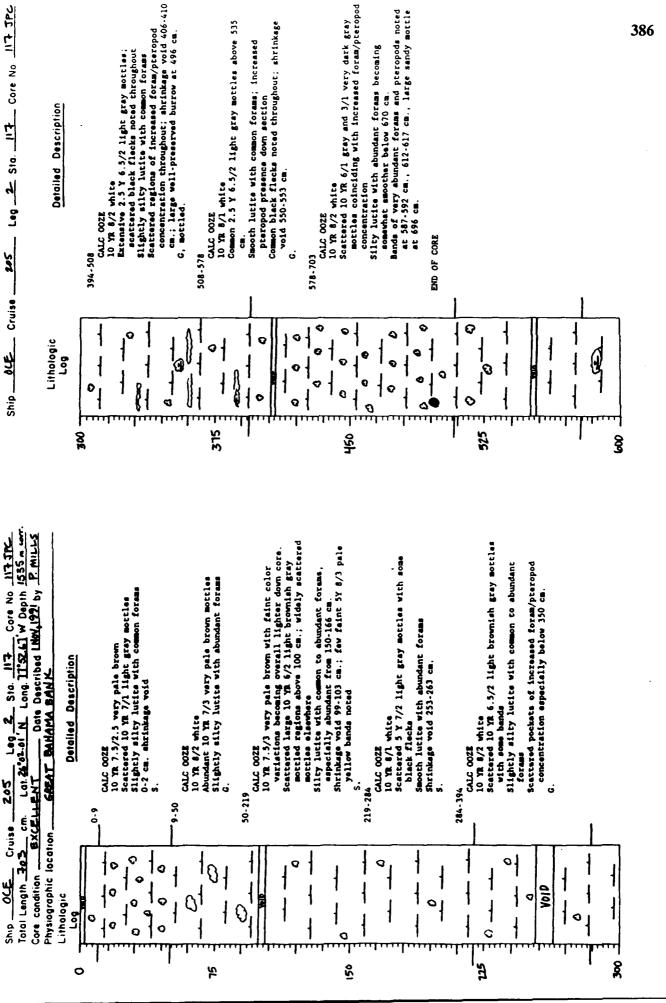
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SPEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Page 1 of 1

VISUAL CORE DESCRIPTION

ABUNDANCES (X)



Poge 2 of 3

VISUAL CORE DESCRIPTION

Poge 1 of 3

SMEAR SLIDE DESCRIPTIONS - M.H.O.I. SEDIMENT CORES	Station No. 117 JPC Station No. 117 Total Core Length 703 cm
SHEAR SLIDE DESCRIPT	Ship: OCE Expedition 205 Leg No. 2
Sto. 117 Core No. 117 TPC	Detailed Description
Ship OCE Cruise 205 Leg 2 Sto. 117	Lithologic Detailed

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Station No.	Total Core Length	ESTIMATED ABUNDANCES (x)				Clay	80	01	15	20	20	57	2	01	14										
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			Inorganic Material	Š		293 } [092						_	1				-		 		<u> </u>		-	1	
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TAPE I FIGURE	02		_		SEDIMENT	•	CALC OOZE	CALC 00ZE	CALC OOZE	CALC OOZE	CALC OOZE	CALC OOZE	CALC OOZE	CALC OOZE	CALC 00ZE										
2	Leg No.				LEVEL		4	30	130	240	330	430	530	630	707										

SMEAR S	OCE	Expedition 205	fo		SEDIMENT	TYPE	CALC 002E	CALC OOZE												
	Shfp:	Expe	Leg No.		LEVEL		2	70												
VISUAL CORE DESCRIPTION	Ship OCE Cruise 205 Leg 2 Sto. 117 Core No 117 PC Total Length 60 cm. Lat 26'03.01'N Long 71'62:61 W Depth 1535 m cm. Core condition EXCELLENT Date Described INM, 199! by P. MILLS Physiographic location 6607 BAHAMA BANK	Lithologic Log Log	ļ.,,	1 101	0	9 1	60 - F.M. A. C. C. Bore abundant below 45 cm.	3		• • • • • • • • • • • • • • • • • • • •	1	 	••11•	*****	 	 ~~~	***	 ••••	*****	
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Redioleria 2mo 16 f O

Discoasters

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Volcanic Shards

Seatfoes Micronodules Detrital grains

Pteropods

Biogenous Material
Calcareous Siliceous

Inorganic Material Silt & Sand

ESTIMATED ABUNDANCES (%)

Total Core Length

Station No. Core No.

117 PG

SMEAR SLIDE DESCRIPTIONS - M.H.O.I. SEDIMENT CORES

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES	Core No. 118 GGC		Total Core Length 52 cm	ESTIMATED ABUNDANCES (%)	Sitt & Sand Calcanous Material	Va13 zmenoi	2 12 10 45 4 D D	2 10 15 44 5 20 4	TR 8 15 45 6 25 1									
SHEAR	Sh1p: OCE	t199	Leg No. 2			LEVEL SEDIMENT TYPE	2 CALC DOZE	20 CALC GOZE	50 CALC OOZE									
B 44.C	MILLS		į		-gion			_1						 				
101 205 Leg	The Solution	Lithologic Log Detailed Description			Large 10 % 7/2 siley light gray mottled region	28-52 O O O 28-52 O O O Scattered small 10 YR 7/2 light gray mottles Slightly silty lutite with common to shundary	Core becomes dry and silty below 48 ci		AND OF COMP				-				· ·	

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Page 1 of 1

CORE DESCRIPTION Page 1 of 1	20 - 10 - 10 - 10 - 10 - 10 - 10 - 10 -	CALC GOZE 10 YR 7/3 very pale brown Few 10 YR 6/1 gray mortles Slightly silry lutite with common forams 0-3 cm. ahrinkage void 6.	14-38 CALC 002E 10 YR 8/2 white Common 10 YR 6/1 gray mottles with black flecks Silty lutite with common to abundant forans G. 79	CALC GOZE 10 YR 7/4 very pale brown grading to 10 YR 8/3 very pale brown Scattered to common 10 YR 6/2 light brownish gray Silty lutite with abundant forams G.	10 TR 8/2 white Few 10 YR 6/2 light brownish gray and 6/1 gray mottles Dry silty lutite with abundant forams Shrinkage void 94.96 cm.; large foram/pteropod sand layer from 155.164 cm.	CALC GOZE 10 YR 8/2 white 10 YR 8/2 white Common large 2.5Y 7/2 light gray mottles and bands aubparallel to stratification Smooth to alightly silty lutte with common forams Common black flecks noted throughout	END OF CORE
VISUAL CORE	Ship OKE Cruis Total Length 227 Core condition Physiographic location Lithologic Location	10 10	1010		1 1 1		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
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			Materi	thers	2 8	35	8	22	0,		† -: i					 	† — · 	-				
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2			Biogenous Calcareous	teropods	0 1	80	3	2	6	-							-					
119 JPC	ngth .	ABUNDANCES	3	2[1220]onns	3	3	8	7,7	g		<u> </u>											
י ו	5	8		2me101	80	2	6	5	2													
Core No. Station No.	Total Core Length	ESTIMATED		Clay	2	2	15	20	15													
22.	Tot	S	Sand	olcanic sbraic																		
				satifoa																		
			Inorganic Silt &	t cronodul es	2	TR	-	Ĕ	ă.													
			L	fethted anterg																		
Ship: OCE Expedition 205	102			SEDIMENT TYPE	CALC 00ZE	CALC 002E	CALC 002E	CALC 00ZE	CALC DOZE													
Ship: Exped	Leg No.		•	רנאנו	4	24	\$0	120	225													

SMEAR SLIDE DESCRIPTIONS - M.H.O.I. SEDIMENT CORES

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119 PG	7	gth	MDAN	ď	2 ft22010nnsN	77	35				- j-	\top										
Ore No. 119 PG	ا	Total Core Length	ESTIMATED ABUNDANCES (X)		2M&10-1	2	80													ļ		
Core No.	Station No.	2	IMATE	П	CIA	2	16			\top	1	1	\exists			-	_					
29	Stat	Tota	53	rie]	Volcanic shards				\top	\top	\top	\top	7			 						
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				Ingreanic Meterial	Mcronodules	-	T.		+	+	+	+	\dashv		 				-		H	
1				Inor	Salary Salary				+	+	+	+	\dashv	-						 		:
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300	Expedition 205	0.			SEDIMENT	CALC 00ZE	CALC OOZE															 -
Sh1p: _	Exped	Leg No.			LEVEL	\$	34															
Ship OKE Cruise 265 Leg 2 Sto. 119 Core No. 119 PG. Total Length 36 cm. Lat. 26°07.26 N. Long. 71°44.64 W Depth 1464 m.m Core condition EXCELLENT Date Described NAOL 91 by P. MILLS Physiographic location LITTLE BAHAMA BANK.	Lithologic Log Detailed Description	V01D 0-28	CALC GOZE 10 YR 7/3 with aliabe color variations	 	ality lutic ahtinkage vo from 26-28 c from 26-28 c	Silty lutite with common forage and scattered	s 	The or oracle END OF CORE														

Sponges

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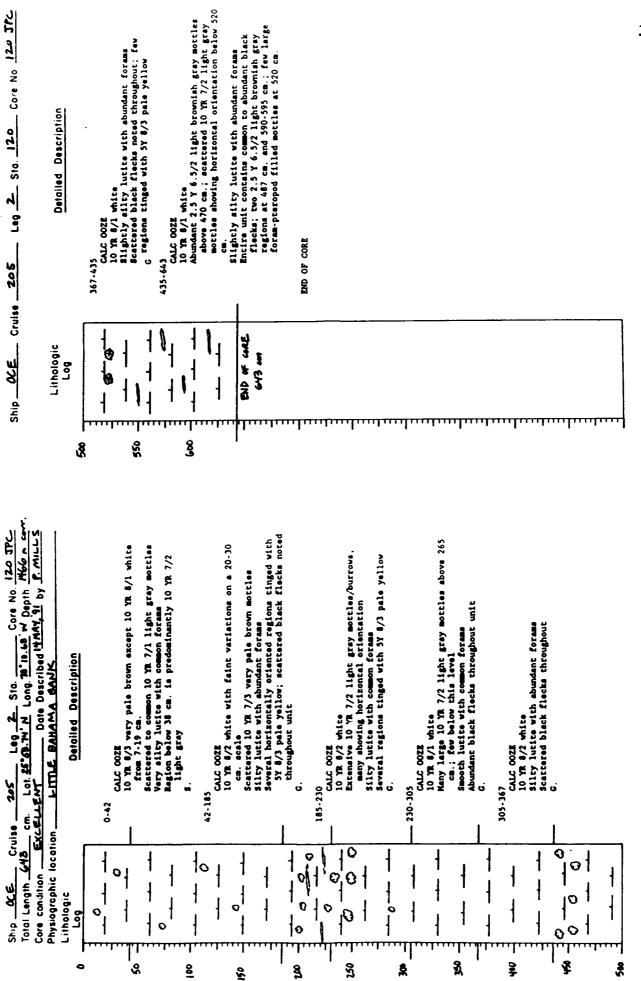
20 35

Rediolerie

Biogenous Material
Calcareous Siliceous

SMEAR SLIDE DESCRIPTIONS - N.H.O.I. SEDIMENT CORES

Page 1 of 1



of 2

Page 2

VISUAL CORE DESCRIPTION

Poge 1 of 2

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CESCRIPTIONS -
SPEAR SLIDE

Poge 1 of 1

Cruise 205 Leg 2 Sta 120 Core No 120 For EXCELLENT Date Described SMAN, 177 by P. MILLS ation LITTLE BAHAMA BANK	CALC OOZE OF WAY PAID Brown	Statement to in // ingre gray mottles 311ty luttle with common forans 0-3 cm. shrinkage void 8. CALC 002E 10 YR 8/2 white Extensive 10 YR 7/3 very pale brown and 10 YR 6/1			END OF CORR															
ngth 1: ndition - raphic loc gic	101			1 6	3		1111	111	du.	ng r	uul	***	Ji		1111	777	بان	. .	m	mm
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	later	219410	30	20	25	69	22	35	25	29										
643	K) R	Discoasters																		
SH a	IDANCES (%) Biogenous Mate Calcareous	sboqones4	,		2	2		5	6	•										
120 JPC 120	Cal	2 1220 TonneM	æ	\$	16	~	\$\$	32	9	0,4										
Core No. 120 Station No. 120 Total Core Length	ESTIMATED ABUNDANCES (%) al Biograph Calcareous	200101	20	2	8	13	15	20	**	3										
Core No	I W	Clay	OZ	2	20		15	15	13	15										
Core Stat Tota		Volcantc shards				П														
	ES Inorganic Material Silt & Sand	sealfoes					\neg	_						-		<u> </u>		H	H	\exists
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Ship: OCE Expedition 205 Leg No. 2		SEDIMENT	CALC 002E	CALC OOZE	CALC 00ZE	CALC OOZE	CALC 002E	CALC OOZE	CALC 002E	CALC 002E										
Ship: Expedit		LEVEL	2	100	200	275	360	410	200	079										

SMEAR SLIDE DESCRIPTIONS - M.H.O.I. SEDIMENT CORES

VISUAL CORE DESCRIPTION	Ship OKE Cruise 205 Leg 2 Sta 121 Core No 121 CGC Total Length 61 cm Lat 26'09.26'N Long TI'19:46 W Depth 1253 m Law Core condition EXCELLENT Date Described 4NW. 11 by R. MILLS Physiographic location LITTLE BANAMA BANK Lithologic Log	CALC COZE O.37 CALC COZE 10 YR 7/3 very pale brown with faint color	Scattered 10 TR 8/2 white and 10 TR 6/1 light gray mottles and 10 TR 6/1 light gray mottles slightly silty lutite with common foreas large ellty mottle at 30-32 cm. Vary G, mottled.	END of CARE 10 YR 8/2 white S/ Arm and scattered 10	YR 6/1 light gray mottles Slightly silty lutite with common to abundant forams	Unit becomes much siltier below 47 cm.	END OF CORE	 ····	 ••••	 	 	 	 	 111
SHEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES	Ship: OCE Core No. 120 PG Expedition 205 Station No. 120 Leg No. 2 Total Core Length 22 cm 0	MCES (%) \$!gagenous Material careous Siliceous		10 10 43 6 25 4	65 CALC COZE TR TR 10 15 47 10 15 3									

CORES
SEDIMENT
- W.H.O.1
DESCRIPTIONS
HEAR SLIDE
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Page_____

C. cm. Lat. 265 Leg 2. Sta. 12.2. Core No. 122 JPC. EXCELLENT Date Described ISAN, 9t by P. MILLS Date Described BANK, 9t by P. MILLS Date Describion.	0.14	CALC COZE 10 YM 8/3 very pale yellov	Very slicy grading to forem sand 0-4 cm. shrinkage void; turbidite? 14.25 CALC GOZE 10 YR 8/2 white Very sandy moist lutite with sbundant forcas Large lithified chunk at 21.26 cm. with manganes.	G. Texturel 25-48	CALC 002E Mainly 10 YR 8/2 white	concretions	Many pleroped tests visible; black tape found against ingide wall of liner from 30-35 cm. (may	have caused color change to gray and black) G.		10 YR 8/3 very pale brown Very sendy with emailer lithified bits Mainly forem and preropod tests		END OF CORE									
Ship OCE Cruise Total Length 55 cm. Core condition EXCEL Physiographic location Lithologic Logic Logic	T	1	1 1 1	10	1		\$			(विध् उ	\bot				*****		MARKIAL	· · · · · · · · · · · · · · · · · · ·		ттт	
E :		Siliceous	Diacoms Radiolaria Sponges	7		7										- 1 			_		
		<u> </u>		25	36	52						+	+		+	-					
38	ESTIMATED ABUNDANCES (X)	Blogenous Mate	Pteropods	-	3	•			_		\perp	\pm	$^{+}$		\perp	\perp		-			
121 GGC 121	JUNDAH	3	2 [] 2 SO Y OUNG M	0.4	0,4	35					\downarrow	\perp		\perp	\downarrow	_					
2	TED A	$oxed{\downarrow}$	2ms101	2	7	15			_	H	\dashv		+	+	+	+					
Core No. 121 Station No Total Core Length	ESTIN	4	clay	2	13	2	_	-		\vdash	\dashv	-	+	+		+			\vdash		
		Ingreanic Material	Zeolites						-	-+	\dashv	+	+	+	+	+					
		34015	Hcronodules	7	-	~					+	+	+	+	\dagger	+-					
		Inor	fastmasol anterg	Ę																	
Ship: OCE Expedition 205 Leg No. 2			SEDIMENT	CALC 00ZE	CALC 002E	CALC 00ZE															
Ship: Expedit Leg No.			רנאנר	2	25	8															

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Cruise 205 Leg 2 Sto 125 Core No 122-PC S cm. Lot 26'09.47' N Long 11'19.45' W Depth 1267 m mr. NoT 4PLIT Date Described by Detailed Description	NOTE: CORE IS IN STORACE BUT REMAINS UNSPLIT																				
Ship OCE Cruise Total Length 3 c Core condition Net Physiographic location Lithologic Log	ուսուդ	ուղուդուս լ	****	L	****	սի	T T T	Liii	т.	***	777	ļ	*1**	بان	لبيد	-111	· † · ·	77]	t T T T		ببلت
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122 JPC 122		2 f i 220 i onna M	-	ક્ષ	04	ä	_		i											<u> </u>	
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Core No. 122 Station No Total Core Length	ESTIMATED ABUNDANCES (%) Blosenous Calcareous	C1 sy	80	2	7	\$		-		-			\vdash			-			\vdash	-	
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Ship: OCE Expedition 205 Leg No. 2		SEDIMENT TYPE	CALC 00ZE	CALC 002E	CALC 002E	CALC OOZE															
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Core No. 140 GGC	į	Total Core Length 45	ESTIMATED ABUNDANCES (x)	Inorganic Material Biogenous	Clay Forans	2 8 10 48 4	3 12 6 42 3	2 15 20 33 7										
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SMEAR SLIDE DESCRIPTIONS - M.H.O.I. SEDIMENT CORES

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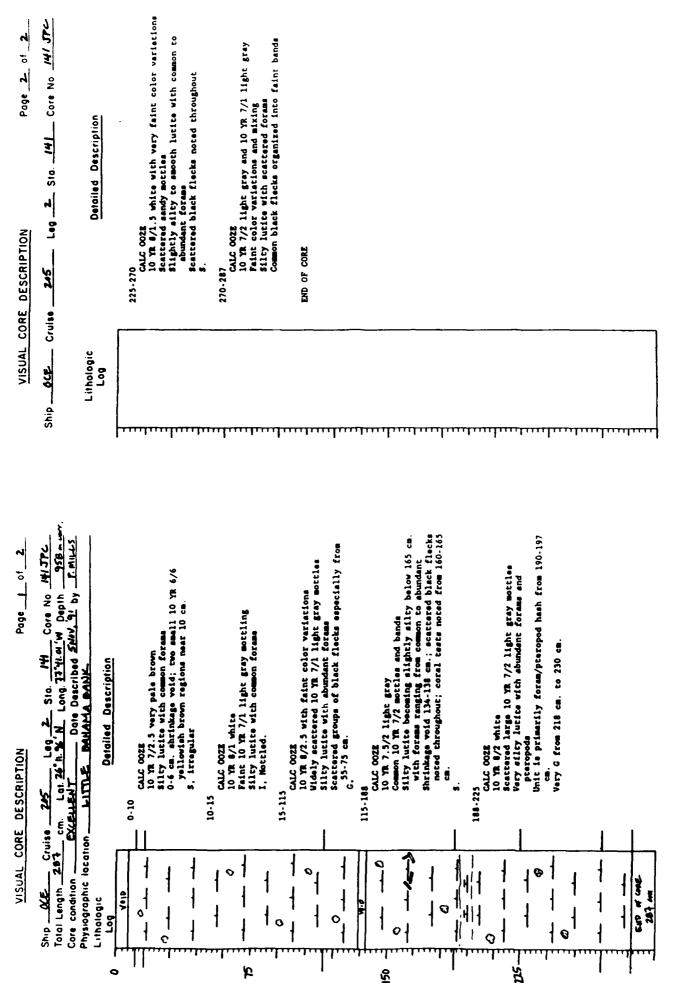
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Page 1 of 1

Leg 2 Sta 141 Core No 11.94.01 W Depth	CELLENT Date Described Saw 9 by -		Detailed Description	99		10 YR 7/3 very pale brown with faint color	Pariations Fau 10 W 8/2 white mottles below 13 cm. 814 ptt 1 cm.	CALC DOZE 10 NR 8/2 white	Silty lucities with common to abundant forms Above 24 cm once contains forms	pale brown bands	END OF CORE															
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	300E	Expedition 205	9.				SEDIMENT TYPE	CALC OOZE	CALC 002E	CALC 00ZE	CALC 00ZE	CALC 002E	CALC 00ZE	CALC 00ZE												
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Page 1 of 1

Cruise 205 Leg 2 Sto 142 Core No 42-3PC. 4 cm. Lat 22 1134'N Long 1144.51 W Depth 955 m correction EXCELLENT Date Description	0-5 CALC 002E 10 MR 7/3 very pale brown	Slightly silty lutite with common foreas Faint 10 TR 8/4 very pale brown layer at unit base S, irregular 5-16 CALC 002E 10 YR 8/1 white Common 10 YR 7/1 light gray mottles Slity lutite with abundant foreas	16.99	CALC GOZE 10 YR 8/3 very pale brown grading to 10 YR 8/2	white below 50 cm. Common mottling and mixing of main colors and	scattered 10 YR 6/1 gray mottles Slightly silty lutite with abundant forans	Very G from 50 cm.	99-141 CALC DOZE	5 Scattered sandy mottles	Smooth lutite with common to abundant forams Scattered black flecks noted throughout	છં	141-154 CALC 00ZE	10 YR 7.5/2 white Common dark brown and black flecks	elignely saley tueits with compon forans	END OF CORE					
Ship OCE Cruise Total Length 154 c Core condition EXC Physiographic location Lithologic Log	101		0	10	10	3 +	 	0	+	1	+ + +	} }			 - 	sort or ONS	五			
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SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Page 1 of 1.

Gruise 265 Leg 2 Sto. 142 Core No.	Clocation LITTLE PANAMA BANK		Describing Describing	0-17	CALC 00ZE 10 YR 7/2.5 pale brownish gray with faint color	Some mottling of main colors \$10	Abundant 10 YR 7/1 light gray mottling Silty to fine andy lutite with common to shundant	Corass and preropods Unit becomes 10 YR 8/3 very pale brown from 56.60	cm, and 70-91 cm.	1	-	2					-							-	
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Ship off Cruise 25 Leg 2 Sta. 143 Core No. 143 666 Total Length 63 cm. Lat 2.13.18 N. Long 11.42.25 W Depth 205 m.c Core condition EXCELENT Date Described 7Net. 91 by F. MILLS Physiographic location LITTLE BAHAMA MANK. Lithologic Log	 	9.0 CALC 002E			Slightly slity lutite with common to abundant	1 0 1 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4		53-63 CALC 002E	10 YR 8/3 very pale brown Common 10 YR 7.5/2 light gray mortles	Very ellty lutite with abundant forest Stattered Dtercood tests noted especially helps in	CB,	END OF CORE											
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SHEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDINENT CORES

Poge 1 of 2

2012 Sto. NA Core No. 25:12 No. 17:42.31 W Depth	PLLENT Date			0.13	CALC COZE 10 YR 7/2 light gray Acetron fairs 10 YR 8/3 this continu	Sity lutte with common forms Few 10 YR 6/6 brownish yellow features above 7 cm. S. mottled. 13-70 GALC GOZE 10 YR 8/2.5 white with slight variations in color Scattered 10 YR 7/2 light grave alongate mottles.	most oriented closely with stratification Silty lutite with abundant forams	G, mottled	70-130 CALC 002E	10 YR 7.5/2 light gray with variations Unit is heavily mixed and mottled mainly with 10	NR 7/2 light gray Silty lutte with common forems	Shinkage void 97-99 cm.; scattered branch coral fragments noted below 105 cm.	c, mottled.	130-169 CALC 002E	10 YR 8/1 white Extensively mix down to 143	cm.; common to extensive 10 YR 7/2 light gray mottling/burrowing elsewhere	Smooth compact lutite with common forams Common black flecks noted throughout; sandy mottle	At 135 cm. S.	169-217	CALC COZE 10 YR 8/2 white	Scattered 10 YR 7/2 light gray elongate mottles Silty lutite with abundant forams and scattered	pteropods G.				46
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SHEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES		Ship: OCE Core No. 144 JPC Expedition 205 Station No. 144	Leg No	ESTIMATED ABUNDANCES (%)	Inorganic Material Biogenous Ma	SE SE SE SE SE SE SE SE SE SE SE SE SE S	The part of the pa	1 17 15 40 5	40 CALC 002E TR 20 7 54 .	100 CALC 00ZE TR 15 15 38 5	150 CALC 002E 1 10 8 18 2	195 CALC 002E 1 15 12 48 4	240 CALC 002E TR TR 18 10 45 3	340 CALC 00ZE TR 16 8 55 6	440 CALC 002E TR 24 7 55 4	549 NANNO OOZE TR 5 3 84									
	Cruise 205 Leg 2 Sta. Att Core No 14 JPC	Detailed Description		277.724 CALC 002E	10 YR 8/2 white Slightly salth abundant foress	Decoming common below 230 cm. Coral branch noted at 234 cm. S.	249-418 CALC GOZE Mainly 10 YR 7/2 but extensively mixed and mottled with lighter and darker shades with lighter but between the states of the	below 333 cm.; elso many 10 XR 7/2 morries evidenc anatomic articles evidenc anatomic lichter mertir	Moist slightly slity lutite with common forens Two turbidites suspected from 321-333 cm.: sandy	moist lutite with possible erosional surface at 326-327 cm.; shrinkage void from 253-257 cm. end	from 407-416 cm.	418-347	CALC COZE 10 YR 8/1 white	~ 3	Region below 532 cm. heavily mixed with 5Y 5/2 grayleh brown lutite	Very S. texture.	24/-551 NANNO OOZE	Very white Dry chalky send, pebble and stone sized material	Abrupt shift to lithified material from overlying unit		END OF CORE	_1			
VISUAL CO	Ship OCE Cru	Lithologic Log			 	 	XI	18		QIOA			†	 	0	0	+	1	6	 	1	4	EMP OF LATE	£ Š	
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Ship: OCE Expedition 205 Leg No. 2	SEDIMENT TYPE	4 CALC GOZE 25 CALC GOZE	46 CALC 00ZE				
Lot. 26-13-15'N Long 32-72.34'W Depth 92-2m cm. ENT Date Described BMW 31 by RMILLS LTITLE BAHAMA BANK Detailed Description	, o	Silty lutite with common to abundant forens and pteropods 10 MR 7/6 yellow tinged band 9-10 cm.; small 10 MR 4/6 dark yellowish brown feature at 24 cm.	Exercised Co. mortied Co. Co. Co. Co. Co. Co. Co. Co. Co. Co.				
5 9	0.9 GALC GOZE 10 YR 6.5/3 light brownish gray and 10 Yr pale brown Silty lutite with common forams and pter 9.44 GALC GOZE 10 YR 8/1 white Few faint 10 YR 7/1 light gray mottles; YR 8/3 pale brown mottles below 36 cm.	Silty lutife with come pearopods 10 YR 7/6 yellow tings YR 4/6 dark yellowis	G, mortled 44.47 CALC GOZE 10 YR 8/3 very pale brown Very aller lutie/fine am	END OF CORE			
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SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES	Ship: OCE Core No. 145 GGC	Expedition 205 Station No. 145	Leg No. 2 Total Core Length	ESTIMATED ABUNDANCES (%)	Ingregatic Material Biggenous Silt & Sand Calcareous	intes intes sprin	Detrital Properties Micronode Monoralite Selites Volcanic Sha Clay	2 8 15	17 CALC 002E 2 10 20 35									
Ship OCE Cruise 205 Leg 2 Sto 145 Core No 145 Core	Non Excellent	Detailed Des	1	0.3	10 TR 7/3 very pale brown Silty/sendy lutite with abundant forems and	G. G. Breropode	EalP of coff CALC 002E 10 YR 7.5/2 light gray 15 on Silty lutite with common to abundant foress and pteropode	agy 30 UM										

Discoasters pteropods 2 Core No. 145 GGC Total Core Length 145 × 2[1220]onnsM 38 Station No. 2005TO7 2 15

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Cm. Lot. 24'12. 71 Long 1729.6' W Opph 542 m. err. Co. Lot. 24'12. 71 Long 1729.6' W Opph 542 m. err. Co. Lot. 22'12. 71 Long 1729.6' W Opph 542 m. err. Co. Lot. 22'12. 71 Light gray South of 3.72 Light gray South cold cold cold cold cold cold and Co. Co. Son. Shrinkage widd: core contains large South cold cold cold cold cold cold cold cold			-				SEDIMENT	17PE	CALC 00ZE	CALC 002E	CALC 00ZE	CALC 00ZE	CALC OOZE													
0-36 Cm. Lat. 22, 12, 37 O-38 CALC COZE 10 YR 7, 5/2 Sandy lutite calcore con entering and 19/2 by Very silry/ Few calcarse G. 86-187 CALC COZE 10 YR 7/2 11 Scattered by Scattered		Ship	Expe	Leg			-	רנ אנר	9	65	071	220	248													
	205 Leg	ET I	- 1			10 YR 7.5/2 11ght grey		ය ජී	10 YR 9/2 white 10 YR 9/2 white Very silty/fine sandy lutite Few celearance bits about 48		86-187 CALC 002E	10 YR 7/2 light gray Scattered 10 YR 8/2 white mottles. few mottles	show preroped concentrations Silty lutite with common forms	Shrinkage void 110-118 cm.	- 187-249 CALC 002E		Slightly silty to smooth lutite with scattered	forans	END OF CORE		1					
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SMEAR SLIDE DESCRIPTIONS - M.H.O.I. SEDIMENT CORES

Poge 1 of 1

		Sh1p:	300			200
Lithologic	Datailed Description	Exped	8			Statio
F 108		Leg No.	lo2	١.		Total
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BY 06 1.0E.	10 YR B/1.5 white Silty lutite with common to abundant foress	· <u>-</u>		Inor	inorganic Material Silt & Sand	Na teri
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Biogenous Material
Calcareous Siliceous

ESTIMATED ABUNDANCES (%)

Total Core Length

Station No.

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Page t of t

VISUAL CORE DESCRIPTION

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146 PG

Core No.

Onto Described 22-N D Described 22-N D Described 22-N D Described 22-N D Described 22-N D Description CALC COZE 3.5 Y 7.5/2 light gray with alight wariaciona 3.11 utita with comon forms 0-3 cm. shrinkage wold; 80-83 cm. s 160-168 cm. is in storage but reast CORE	TH'M. 29 W Depth 454 m terribed 2244 91 by R Mikes	Expedition 205 Station No.	Leg No.		Validations gray with slight color	abrinkage void LEVEL SEDIMENT Amaine unaplit	Detri Micro	3 CALC GOZE 1 TR	90 CALC 002E	159 CALC 00ZE 1															
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SMEAR SLIDE DESCRIPTIONS - M.H.O.I. SEDIMENT CORES

Page 1 of 1

VISUAL CORE DESCRIPTION

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Ship: OCE Expedition 205 Leg No. 2	SEDIMENT	CALC OOZE	CALC OOZE	CALC 00ZE														
Ship: Expediti	ונאנו	2	200	248														
Cruise 265 Leg 2 Sto. M9 Core No. 149 TC. 9 cm. Lat 26/16/40'N Long Ta' 16/24' Depth 600P Date Described 25/14' Dy RMILLS ation LITTLE PAHAMA BANK Detailed Description	0-200 CALC OOZE 10 YM 7-5/1.5 light gray Common 10 YM 8/1 white mottles Silty lutite with common forams 105-111 cm. shrinkage void G. 200-249 CALC OOZE 10 YM 7-5/1.5 light gray Sandy lutite with coral hash	Very similar to overlying unit but with more send size material and large lithified calcareous material	END OF CORE		1					1		4		0				
Ship OCE Cruise Total Length 249 cm. Core condition 660 Physiographic location Lithologic Log	10 1 10 1	<i>e</i>	giox	↑	1	- - -	• † 	 	©	1 	 	4 1		000	END OF SEE		*****	•••
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Biogenous Material
Calcareous

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SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Page 1 of 1

Expedition 205 Expedition 205 Leg No. 150 GCC Expedition 205 Station No. 150 GCC Statio No. 150 GCC Station No. 150 GCC Station No. 150 GCC Station	
Sho OKE Cruise 200 Log 1 Sto. 150 Core No. 150 664 The condition where controls of 200 May Depth 20	

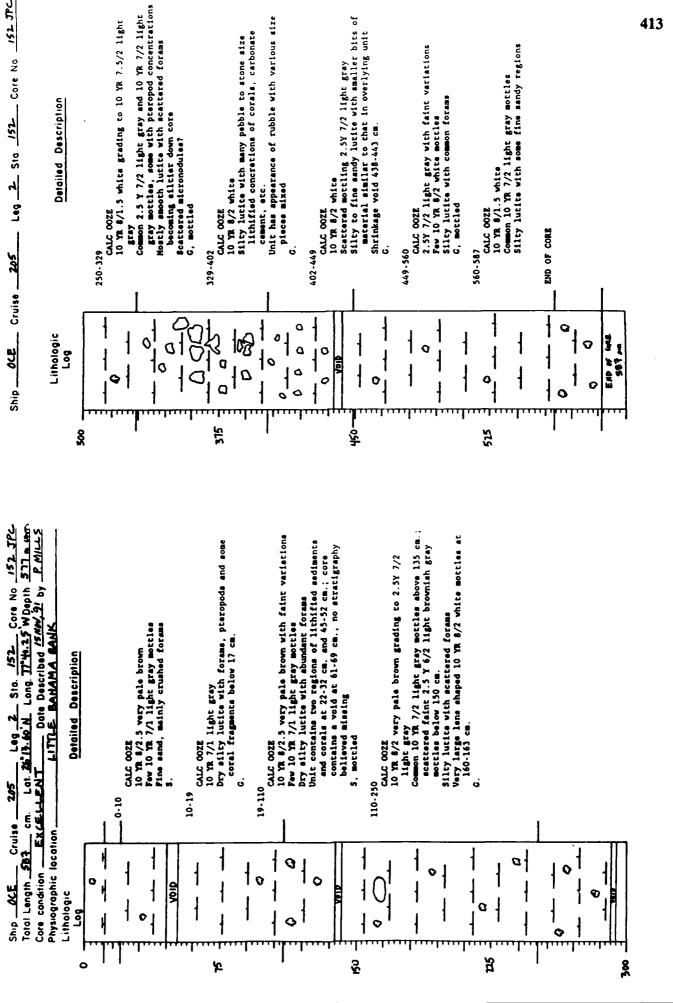
SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Page 1 of 1

Leg 2 Sto. 151 W Depth LITTLE BAHAMA BANK LITTLE BAHAMA BANK Detailed Description N.C OOZE O. TR 8/1 white Detailed Description Str. 1 wite with common forms throughout CORE COPA CORE COR	Core No. 151 GGC Station No. 151	engt	ESTIMATED ABUNDANCES (%) [M.terial Bloggeous Material California	Cley Forests	13 15 45 6 20 1	12 20 35 5 25 1									
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Detailed Description Out constant to the constant of the cons	t s			SEDIMENT TYPE	CALC 00ZE	CALC OOZE									
The core No core no co	Shfp: , Expedi	Leg Mc		LEVEL	2				ļ						
	Sore No	i	Bottles	ered pteropods noted									•		

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Page 1 of 1



182 JPC

Core No

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VISUAL CORE DESCRIPTION

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Page 1 of 1

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300 E	tion 205	7				SEDIMENT TYPE	CALC OOZE /	CALC DOZE	CALC OOZE	CALC 002E	CALC DOZE	CALC OOZE	CALC DOZE	CALC 00ZE	CALC 00ZE									+
Shtp:	Expedition	Leg No.				LEVEL	2	3.5	80	180	280	370	95,9	800	586									T

Cruise 25 Leg 2 Sto 162 Core No 152 Por Cruise Cm Lot. 26.18.60 N Long 1740.25 W Depth 573 m Lot. 26.18.60 N Long 1740.25 W Depth 573 m Lot. 26.18 William Detailed Description O-20 CALC COZE 10 YR 8/1.5 white Fray mottles Silty luttle with common to abundant foreas and preropods 0-2 cm. ahrinkage void END OF CORE	
Otol Length 2 Oce condition — hysiographic loc Log Vold Con Condition — Log Vold Condition — Condition	
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Cruise 205 Leg 2 Sto. 153 Core No 157 66C. EXCELLENT Date Described 24NDV 91 by P. MILLS CHILLS Detailed Description		070	10 YR 7/2.5 very pale brown Common 10 YR 7/2 light gray and 10 YR 8/2 white mottles Silty lutite with common forans 0.2 cm. shrinkage void 40.43		firm to semi-lithified sandy lutite with common forms.	SELL White calcareous lump at base of core	END OF CORE													
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Ship: Expedition Leg No.			I FAEL S	3 CA	20 CAI															

VISUAL CORE DESCRIPTION	Cruise 265 Leg 2 Sto. 154 Core No. 154 JP.C. 5 cm. Lat. 26 11.56 N. Long. 77 12.52 W Depth. 1044 m.c 600P LTTLE BAHAMA GANK. Detailed Description.	0-33 CALC 002E		1	void 47-52 cm.	85.123	CALC 002E 10 YR 7.5/1 11ght gray	Common to extensive 10 YR 7/2 light gray mottles and burrows, many parallel to stratigraphy	Silty lutite with common forans	123-150	CALC GOZE 10 YR 8/2 white	Sendy lutite with abundant forans G.	150-274	CALC GOZE 10 YR 8/1.5 white with some very pale yellow Common to extensive 10 YR 7/2 light area morries	and burrows, many parallel to stratification; extensive mottling from 250.260 cm.	Silty lutite with common forams and preropods	Shrinkage void 200-206 cm.	o i	8		1		'
VISUAL	Ship OCE Cruise 205 Total Length 495 cm. La Core condition 600P Physiographic location Lithologic Log 600			4		9	1 9 9	0		1	₹ 	> 1		0	diox		125 11 22			0 0	,	2 2	- M
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SHEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES	Ship: OCE Expedition 205 Leg No. 2			SEDIMENT	CALC 00ZE	CALC 002E										1							
	Ship: Expedit			LEVEL	3	42																	

SHEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES	
Poge 2 of 2	10. 154 COTO NO. 154 JPC
VISUAL CORE DESCRIPTION	OCE Cruise 205 Leg 2 SI

Ship OCE

Ship: OCE	<u> </u>	Leg No.		LEVEL TYPE	6 CALC OOZE	60 CALC 00ZE	110 CALC DOZE	135 CALC OOZE	220 CALC 00ZE	290 CALC 00ZE	330 NANNO 00ZE	370 DETRITUS	430 CALC OOZE	494 CALC DOZE								
Detailed Description		274-302	CALC 002E 10 YE &2 white Common 10 YE 7/2 light gray mottles Slightly silty lutite with common forams Black mottles at 262 cm, and 293-294 cm.	G. 302-365 10 YR 32 white 20 YR 32 white Scartered black flacks noted throughout Silty lutite with common to abundant forans	Shrinkage Void JJJ-JJ0 cm.	365-360 Cat C 002#	John 2016 10 Mg/2 white and 2.5Y 5/2 grayish brown Extensive motiling of main colors	Sandy lutite with abundant forams	380-475 CALC GOZE	10 YR 8/1 white Few 2.5Y 5/2 grayish brown mottles above 400 cm.;	common small black flecks below 400 cm.	Few horizontally oriented burrows noted	473-495	CALC GOZE 10 YR 7/2 light gray and 10 YR 8/2 white	Common mettling and mixing of main colors Silty lutite with common forams and pteropods	•	END OF CORE					
Lithologic Log		1 1	4 4	1 10	1			 	 		•	· ·	 c c) 	END OF CARE		·····	 	 ····I	****	1111	
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Volcanic shards

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Biogenous Material
Calcareous Siliceous

Inorganic Material Silt & Sand

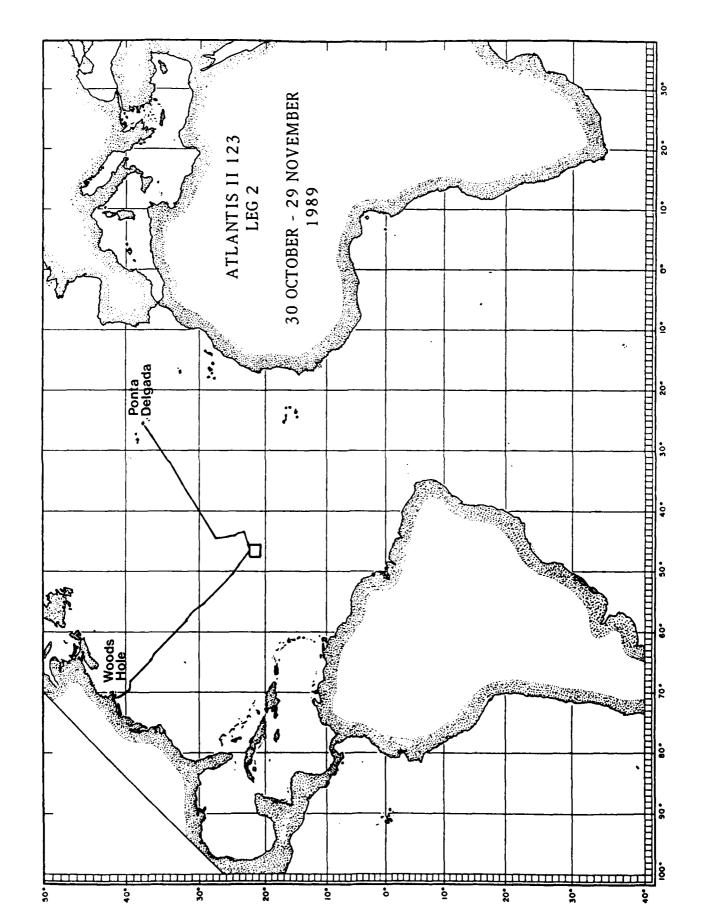
ESTIMATED ABUNDANCES (%)

Total Core Length

Station No.

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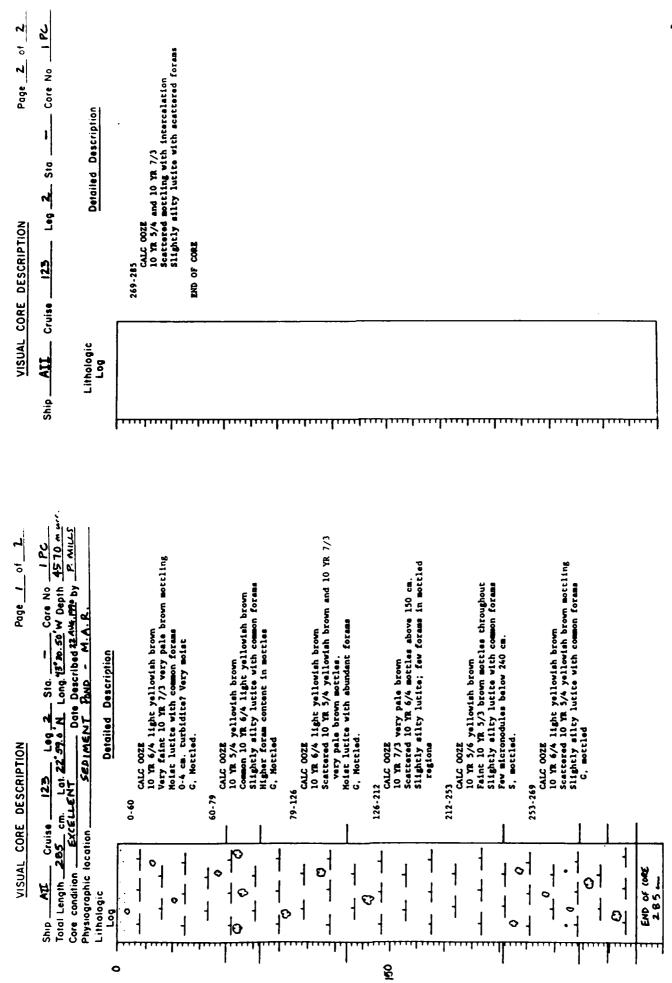
154 JPC



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THERE WERE 25 ITEMS THAT MET YOUR REQUIREMENTS.

THANK YOU FOR USING PROGRAM MUDDIE.



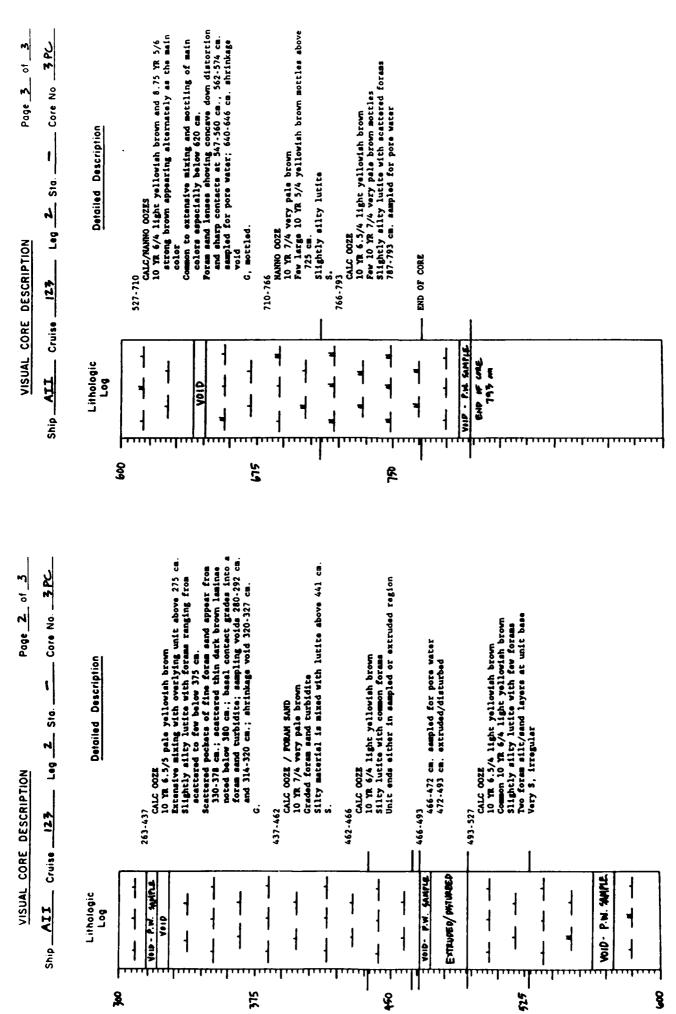
AL CORE DESCRIPTION	Ship AIL Cruise 123 Leg 2 Sto. Core No 1 PG Total Length 125 cm. Lat 22.59.0 N Long 12.20.0 W Depth 4518 m.m. Core condition EXCELLENT Date Described 12 AM MILLS Physiographic location SEDIMENT PAND - M.A.R.,	Detailed Description	0-6 VOID - PORE LATER CHEM SAMPLE	6-29	CALC COZE 10 YR 6/4 light yellowish brown Abundant forams in elightly silty lutite 6, mottled. 29-37 CALC COZE		Slightly silty lutite with common forans Foram content higher in motthed areas	_	37-70	10 YR 6/4 light yellowish brown Faint moteling 10 YR 5/4 with few 10 YR 7/4 very	Slightly silty lutite with abundant forans grading		70-83	10 YR 7/4 very pale brown Scattered 10 YR 6/4 mottles	Slightly silty lutite with few forans Foram content higher in mottles	-	83-125 Second penetration	END OF CORE							
VISUAL	Ship AT Cruise Total Length 125 Core condition EX Physiographic location	Log	VOID	1		1		1	1	1	6 6 1 1	SCOND	PENETALA TION			400 00 400	125								
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SHEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES	Ship: AII Expedition 123				SEDIMENT TYPE		CALC 00ZE	CALC 002E	CALC 002E	CALC OOZE	CALC 00ZE	CALC 00ZE	CALC 002E	CALC 00ZE											
	Sh1p: Exped	Leg Ro.	, [LEVEL		-	25	70	003	160	230	260	284											

CORES
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DESCRIPTIONS
SL 106
SHEAR

Cruise 123 Leg 2 Sta Core No 2 PC 2 cm. Lat 2237.18 N Long 4230.93 W Depth 4125 m EXCELLENT Date Described 31AN 92by F MILLS ation SEDIMENT POND - MID.ATLANTIC RIDGE	0.6 Whole core sampled for nore vater	× .	CALC 002E 7.5 YR 6/5 light brown Mottling and mixing with 7.5 YR 5/4 brown from 30-40 cm. Slightly silty lutite with common forans Shrinkage woid 6-10 cm. G. mottled	70-87 CALC GOZE	10 YR 7/4 very pale brown Common 7.5 YR 6/5 light brown mottles containing	Smooth firm lutite	S, irregular	87-119 SUSPECTED REPENETRATION		END OF CORE	-									
Ship ALL Cruise Total Length 119 c Core condition E Physiographic location Lithologic Log Vall Sales		+ +	101	+	-	0	+ + 0+	0 .	-	PERSON TRATION	 ->	END OF CARE	[
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A11 1110n 123			SEDIMENT TYPE	CALC 00ZE	CALC 002E	CALC OOZE	CALC 00ZE	CALC 00ZE												
Ship: Expedition Leg No.			TEVEL	8	20	33	53	11												

SHEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

RE DESCRIPTION Page 1 of 3	123 00 SEPIM	Detailed Description.	0.34 Sec 6 missing	34.40	whote core sampled for pore vater	CALC OOZE 7.5 YR 5/5 brown with faint variations especially	Extensively mixed and mottled from 56-67 cm.; elsewhere cattered 7.5 NR 5/4 brown mottles Slightly allty lutite with common forens	G, mottled	116-201 Calc 002E	10 YR 7/4 very pale brown Common 7.5 YR 5/5 brown mottles above 140 cm.	Smooth firm lutite with few to no forans except below 194 cm. where unit becomes a fine silt	Sampling void 180-186 cm.; shrinkage void 186-191 cm.; few silty laminations noted from 168 to 173	cm. Very S.	201-245	CALC 002E 7.5 YR 5/5 brown	Common but faint mottling slightly lighter than overall color	Slightly silty lutite with common forams Few micronodules noted; thin silty lamination at	218 cm. G, mottled.	245-263	GALC GOZE 8.75 YR 6/6 brown	Scattered to common 10 YR 7/4 very pale brown mottling below 256 cm.	Slightly silty lutite with forems grading from	c, workled	1			
VISUAL CORE	Ship AII Cruise Total Length 793 cm. Core condition 600E Physiographic location Lithologic	Log		*****	VOID - P.W. SAMPLE	† †	1	 	1	1	-L		1 1		,,,,,	1	YOU F.W. GAMPLE	1		1	1	1		 	+ + -	Void - P.W. SANTILE	
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SHEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES	Ship: AII Expedition 123				SEDIMENT	TYPE		CALC 002E	CALC 002E	CALC 00ZE																	
	Ship: _ Expedi	Leg No.				LEVEL		01	S	82									}								



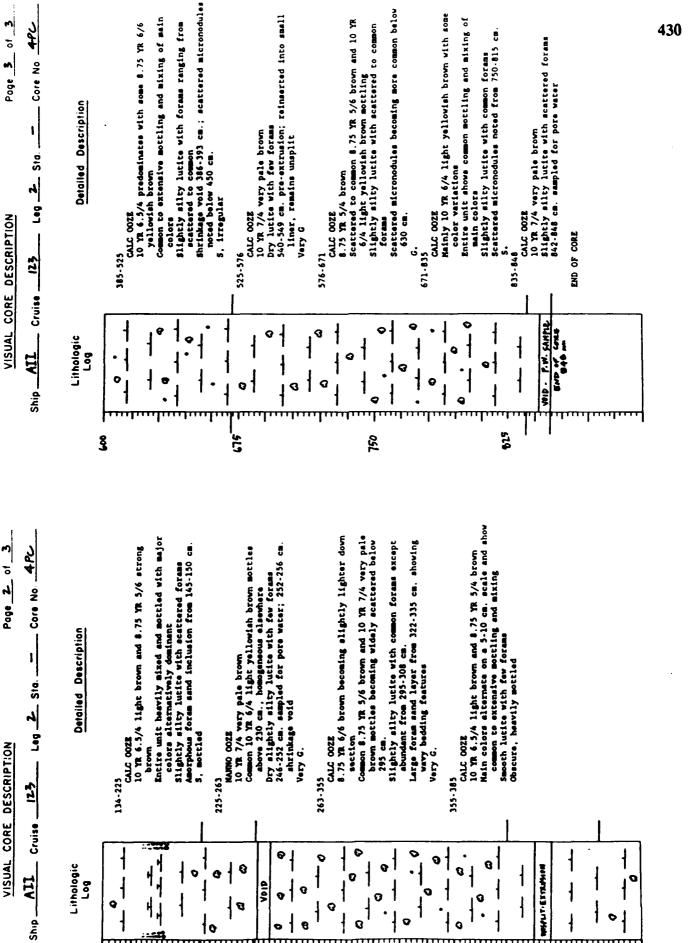
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DESCRIPTION
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Page 1 of 1

Cruise 125 Leg 2 Sta. Core No 3 PG 5 cm. Lat. 22'57'44'N Long 43'31.9'W Depth 4425 m 600D Date Description Detailed Description	0.12	Whole core aqueezed for pore water	12.76	CALC DOZE 7.5 YR 5/5 brown Extensive 7.5 YR 5/4 brown mottling from 37-44 cm.; scattered lighter mottling elsewhere \$lightly silty lutite with common forans Sampling wold; 62-68 cm. squeezed for pore water G. mottled.	76-93 Calc 002 e	8.75 YR 6/4 light brown Common 7.5 YR 5/5 brown mottles	Smooth firm lutite with few forems Very S.	93-122	Statiar to 12-76 cm. unit		122-128	Whole core squeezed for pore vater	END OF CORE								
Ship ALL Cruise Total Length 128 c Core condition 6 Physiographic location Lithologic Log	PACE WATER SAMPLE	•	- - - -	4000	+ % +	VOID - P.W.	4	0	9		!	NATATION STATES	>	VOIP - P.W.	Caro of other						
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Ship: AII Expedition 123				SEDINENT TYPE	CALC 00ZE	CALC 002E	CALC GOZE	CALC 002E	CALC OOZE	CALC OOZE	CALC 00ZE	NANNO OOZE	NAWNO GOZE	CALC OOZE					•		
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DRE DESCRIPTION Page 1 of 3	Cruise 123 Leg 2 Sto. — Core No 4PC. 180 cm. Lot 22'58.58 N Long 19:20-6 W Depth 410 m. Good.	EPIMENT FOND - MID-ATLANTIC P	Detailed Description		0-12 Whole core sampled for pore water	12-52	4.72 VR 3/6 attent brown becoming alightly lighter down section Common 7.5 VR 4.5/4 brown mottling above 20 cm.: scattered 10 VR 6.5/4 pale brown mottles below 46 cm. Silty lutite with common to abundant forans 30.36 cm. sampled for pore water 6. manyled for pore water	52-71	CALC COZE 10 YR 7.4 pale brown	Common 10 YR 6/4 light yellowish brown mottles containing some forms	Smooth lutite becoming silt to fine sand below 66 cm.	S, irregular	71-73 FORAM SAND	10 YR 7.5/4 very pale brown Fine foram sand	Very S.	73-134	CALC 002E 8.75 YR 5/4 brown grading to 8.75 YR 6/4 light	brown Scattered to common mottling and mixing of main	colors from 85-120 cm.; few 10 YR 7/4 pale brown mottles below 125 cm.	Slightly silty lutite with common forans Void 99-105 cm. pore water sample	G, mottled			1		
VISUAL CORE	Ship AII Gru Total Length 248	Physiographic locati	֖֭֓֞֡֡֞֞֡	JAND P.W. SANDE			Sponges	100	9	3	1	1 10	<u>ا</u>	.50 	10	1	9	9 ; 9 ;	9 9	1.55.	† ——		Volp. T.W. SAMPLE.	9	0	+ 0
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SHEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES			ı			Inorg	fathrted snlarp	 																		
SHEAR SI	•		Expedition 123	lo			SEDINENT TYPE	CALC 00ZE	CALC 002E																	
	3		Exped	Leg No.			LEVEL	25	88																	



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SPEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Cruise 127 Leg 2 Sto. Core No 4FC Cm. Lot 22:88:57 N Long 45'50:06 W Depth 4110 n Excellent Date Described 3:3NA 91 by P. MILLS otion SEPIMENT PMP - MID. ATLANTIC RIDGE		CALC DOZE	Common 7.5 MR 5/4 mottles from 10.22 cm. diightly silty lutice with common forans G, mottled 40-55 CALC GOZE 10 YR 7/4 wary pale brown Common 7.5 WR 6/4 lebt brown	Smooth lutite becoming fine calc, silt below 48	Fine sand at base of unit is dragged down along edges of liner to 66 cm.	Vary S.	55-67 CALC DOZE	8.75 NR 5/6 strong brown Slightly silty lutite with common to abundant	forths S	67-109	7.5 YR 6/5 11ght brown	Common to extensive 7.5 YR 5/4 brown mottles below 90 cm.; few elsewhere	Slightly silty lutite with common forans	END OF CORE								
Ship AII Cruise Total Langth 167 c Core condition E Physiographic location Lithologic Log		0		0 1			1	 	; ;	9	,1	FIRST COLE		•••								
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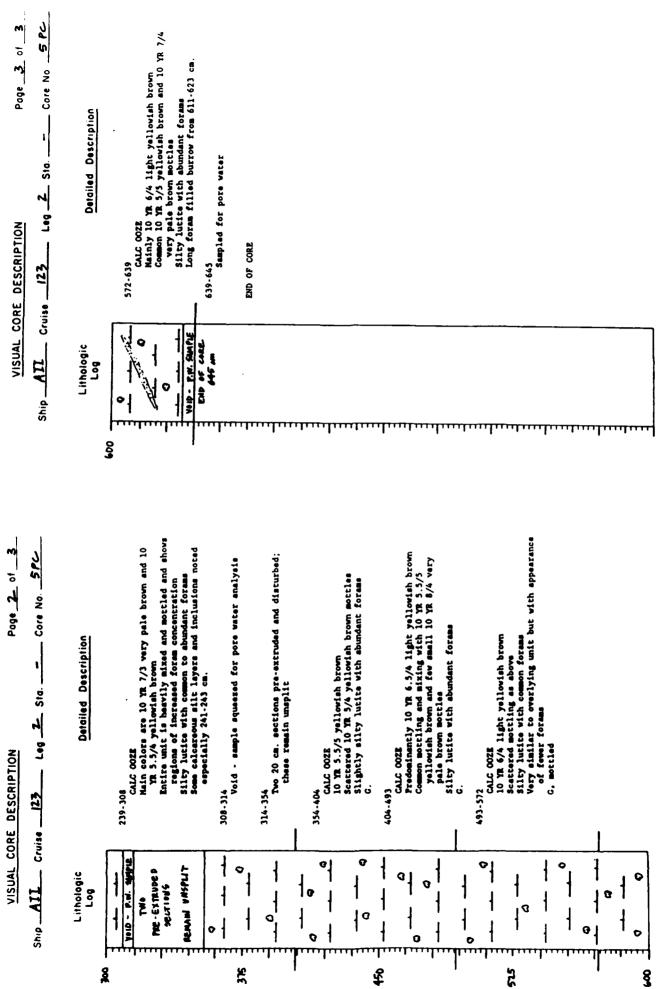
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ORE DESCRIPTION	Ship AIL Cruise 127 Leg 2 Sto Core No 5PC Total Length 645 cm. Lat 22.55.81 N Long 45.71.84 M Depth 4380 m. Core condition 600P Date Date Described 57AM 92 by F. MILLS Physiographic location 552446NT Papp - MID ATLANTIC RIPGE	Detailed Description	0.18 Pre-extrusion: sample squeeyed for note vater	analysis		18-115 CALC COZE	8.75 YM 6/4 Light brown Scattered to common 8.74 WP 4/6 arrone brown		Slightly silty lutite with common forans 30-36 cm. sampled for pore water; unit increases	In calcareous silt contert below 105 cm.	115-123 SYDAM CAND	7.5 YR 0/2 pinkish white	scarcered 10 TK b/4 light yellowish brown inclusions	Fine force sand	S.	123-196	CALC 002E 8.75 YR 5/6 strong brown becoming slightly lighter	below 160 cm. Scattered to common strong brown mottles noted	below 160 cm. Slightly silty lutite with common foress	196-239	CALC COZE 10 YR 6/4 light vellowish brown	Few 10 YR 5/4 yellowish brown mottles slightly silty lutite with common to abundant	foress S. mottled		1	
VISUAL CORE	Ship AII Co Total Length 645 Core condition Physiographic local	Lithologic Log	FLE- EXTRUSING		 	VOD - P.W. MAPLE	 	9	1 1	2 8	 	1	, , ,	1	1	777	<u>چ</u>	┤ ┤ ♣,,	> 	• .		1	13 Y	1	0.0.0	1
H.O.I. SEDIMENT CORES	Core No & PG	3	ESTIMATED ASUMDANCES (\$)		Calcareous		\$ į	Vi Spirest Prist	Fore	8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		77	20 15 50 TR 1 6	36 7 45 2 4												
SHEAR SLIDE DESCRIPTIONS - M.H.O.I. SEDINENT CORES		2 5.		Inorganic Material	Silt & Sand		sə su	fa gref fubd	etrita Herono eolita Presio	2	F			ZE 2 4												
v 7	Sh1p:	Expedition					SEDIMENT	TYPE		2 CALC 0028	50 CALC 002F		Т	108 CALC 00ZE												



SMEAR SLIDE DESCRIPTIONS - M.H.O.I. SEDIMENT CORES

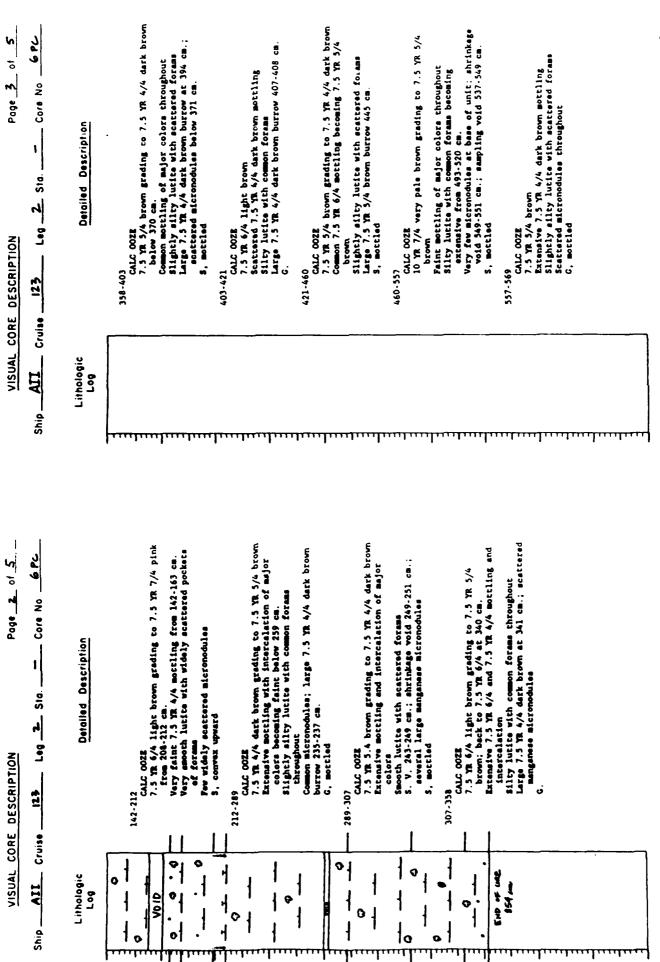
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Cruise 127 Leg 2 Sta. Core No 5PC 3 cm. Lat. 2255.81 'N Long. 49' 91.81' W Depth 4280 m. 600P Date Described 97M.92 by P. MILLS ation SEPTIMENT Pollo - MID-ATCANTIC RIDGE Detailed Description.	0-12	Whole core sampled for pore water	12.39	CALC COZE 10 YR 6.54 light yellowish brown 10 AR 6.54 light yellowish brown 8 cartered small 10 YR 7/4 very pale brown mottles 8 lightly silty lutite with common forms 6. 19-117 CALC COZE	8.75 YR 6/4 light brown Common to extensive mottling and mixing with 8.75	YR 5/4 atrong brown and 10 YR 7/4 very pale brown except for the interval 77-104 cm. where	there is sparse mottling Slightly silty lutice with foress ranging from	common to more abundant below 50 cm., also very abundant below 108 cm.	bures cm. sampled for pore water; 66-68 cm. shrinkage void	117-123	whole cole sampled for pore dater	END OF CORE		ļ									
Ship AIL Cruise Total Length 123 cn Core condition 60 Physiographic location Lithologic Log	TOID - P.W. SWINE		+ + + T	10101	6	TO ID - P.W. SAMPLE	0		 	1	E	9	TAID - P.M. MARIE	END OF CORE		·Į·	m	7771	711	1111	1	1111	Ţī r
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A11 tion 123				SEOIMENT TYPE	CALC 00ZE	CALC 002E	CALC 00ZE	CALC OOZE	CALC 00ZE	CALC 00ZE	CALC OOZE	CALC OOZE									·		
Ship: Expedition Leg No.				רפאפר	19	100	160	220	300	420	540	638											<u>.</u>

SMEAR SLIDE DESCRIPTIONS - M.H.O.I. SEDIMENT CORES

Page 1 of 5

Ship AIL Cruise 125 Leg 2 Sto. Core No 6PC Total Length 854 cm. Lat 224598 N Long 466.59 W Depth 4603 m LLT Core condition EXCELLENT Date Described 163W 90 by P. MILLS Physiographic location SEDIMENT PONP MID: ATLANTIC RIDGE	Detailed Description	ı	Sampling void (S.V.)	12-44	7.5 YB 5/4 brown Faint 7.5 YR 6/4 mottling 12-18 cm.; few 7.5 YR 6/6 reddish yallow mottles 36-40 cm. Slightly slity lutte with common forans throughout S. V. 30-36 cm. G. mottled	44-64 CALC 00ZE	7.5 YR 4/4 dark brown grading to 7.5 YR 5/4 brown Extensive mortling with 7.5 YR 5/4 brown	Slightly silty lutite with scattered forans grading to very silty lutite	Large 7.5 YR 4/4 dark brown burrow from 60.62 cm.	64.67	CALC 002E 7.5 YR 7/4 pink	No mottling Well graded foram sand bed	S, textured	67-142 CALC 002E	7.5 YR 5/4 brown Very faint 7.5 YR 4/4 dark brown mottling	scattered throughout; few 7.5 YR 7/6 reddish yellow mottles 135-140 cm.	Slightly silty lutite with common forams becoming abundant from 97-105 cm.	Lerge 7.5 YR 4/4 burrow 81-83 cm.; sampling void 90-96 cm.; few micronodules	G, mottled	1	ł		1	
Ship ALL Cruise Total Length 654 cm. Core condition EXCEL Physiographic location	3	VeiD	0			 		1	1 1 2 3	1	0	diox	1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1	3	9	1	1	1	• - -	0	1 0	1
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AII	14t1on 123	62	<u>1</u>		SEDIMENT TYPE	CALC 00ZE	CALC 002E	CALC 002E																
Ship:	Expedition	Leg Mo.			רנאנו	12	70	116																



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Paie brown
Faint 7.5 YR 6/4 light brown grading to 10 YR 7/4 very pale brown
Faint 7.5 YR 5/4 brown mottling except no mottling
from 821-831 cm.
Smooth lutife with few forams grading to foram
smod below 817 cm.
Few foram sand layers interbedded with lutite from
                                                   Core No. 6PC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             7.5 YR 5/4 brown Common 7.5 YR 5/4 brown Common 7.5 YR 4/4 dark brown mottling throughout Slightly silty lutite with common forans Common micronodules
       5
     Poge 5
                                                                                                                                           Detailed Description
                                                   Leg 2 Sto.
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CALC 00ZE
       VISUAL CORE DESCRIPTION
                                                                                                                                                                                                                                                              CALC 002E
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                                                   Ship AIL Cruise
                                                                                                                                     Lithologic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             7.5 YR 5/4 brown
Very faint mottling becoming 7.5 YR 4/4 dark brown
from 705-721 cm.
Slightly silry lutite with common forams
broughout
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Crushed forms grading pure forms and
Well graded forms and bed; few 7.5 YR 5/4 brown
striations
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          7.5 YR 6/4 light brown except 7.5 YR 5/4 brown from 745-760 cm.
Faint 7.5 YR 5/4 brown mottling throughout Silty lutite with abundant forams except common
Poge 4 of 5
                                                                                                                                                                                                                                                                                          7.5 YR 6/4 light brown Faint 7.5 YR 6/4 light brown mottling throughout Smooth lutite with few to no forms grading to
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Large 7.5 YR 4/4 dark brown burrow 726-729 cm.
                                                Core No
                                                                                                                                         Detailed Description
                                                                                                                                                                                                                                                                                                                                                   very silty at base of unit
Few micronodules
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    10 YR 7/4 very pale brown No mottling
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sampling wold 702-703 cm.
S. mottled
                                              Leg 2 Sto.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          from 745-760 cm.
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                                                                                                                                                                                                                                                                           CALC 002E
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   VISUAL CORE DESCRIPTION
                                                                                                                                                                                                                                                                                                                                                                                              S. color
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SMEAR SLIDE DESCRIPTIONS - M.H.O.I. SEDIMENT CORES

SMEAR SLIDE DESCRIPTIONS - N.H.O.I. SEDIMENT CORES

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	Expedition 123 Station No.	854	TIMATED ABUN	Blogenous Materi	Calcareous	grains Micronodules Zeolites Wolcenic Shards Forens Peropods Discoasters Others Discoasters Others	30 15 50 2	SO 8 39 TR	55 5 30 2	26 50 20 1	39 5 50 1	50 9 30 4	40 5 43 1	23 8 60 1	25 5 60 1	21 2 65 2	45 1 45 1	36 3 55 2	60 2	32 7 55 2	40 2 29	55 3 24 15	2 8 60 14 8	60 15 23 TR

Ship: AII Core No. 6 PG Expedition 123 Station No. 134 Leg No. 2 Total Core Length 134	ESTIMATED ABUNDA	inorganic Material Biogenous	İ	TY EDITE NATIONAL SECTION OF CONTROL STANFORS Torent C Shards Clay Forems Forems Forems	3 35 10 50	20 CALC 002E 4 44 8 43	40 CALC 002E 6 58 4 30	48 FORAM SAND 1 2 80 17	70 CALC 002E 5 48 15 30	105 CALC OOZE 3 36 10 50	120 CALC OOZE 4 30 15 50	131 CALC OOZE 2 45 8 44								
Core condition Excellent And Only Series by Childs Physiographic location Septement And Andrice River Lithologic Log Optoiled Description	0-31 CALC OOZE	/.3 IR 3/4 Brown Faint 7.5 YR 6/4 light brown mottling from 0 - 10 cm	Silty lutite with common forems 6. mottled	CALC COZE 7.5 YR 4/6 strong brown grading to 7.5 YR 5/4 brown 7.5 YR 5/4 brown extensive mottling with inter- calation of major colors. Slightly salty lutte with scattered forams 1 area 7 4 W 4 4/4 brown at 2.5 cm	19 19 19 0 01110 B 1 17 UB.	46-49 FORAM SAND	7.5 YR 6/4 light brown Well graded foram eand	v	49-92 CALC DOZE	7.5 YR 5/4 brown Widely scattered 7.5 YR 4/6 etrong brown mottling	from 55 - 60 cm; very faint elsewhere Slightly silty lutite with common forams throughout.	Contact is convex downward between 90-93 cm.	92-110 CALC 002E	-+	Silty lutite with common forans becoming abundant from 97-101 cm.	S, mottled.	110-134 CALC GOZE	7.5 YR 5/4 F-own Few 7.5 YR 6/4 11mht brown mottles	Core catcher	END OF CORE

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Sponges

Diatoms

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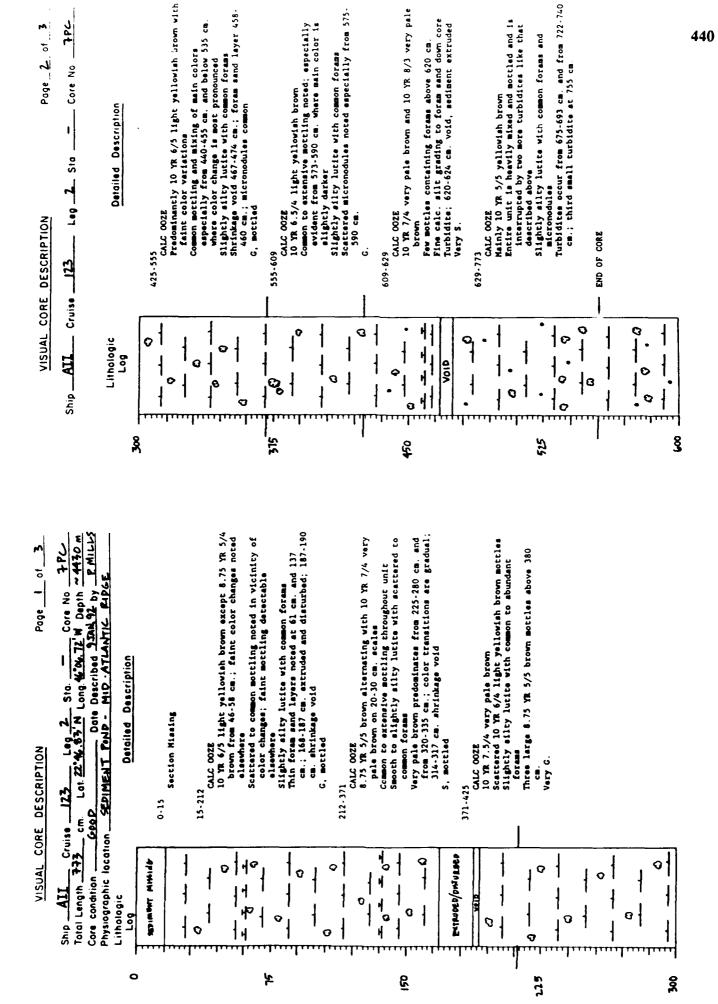
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Biogenous Material
Calcareous | Siliceous

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

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VISUAL CORE DESCRIPTION



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		7	-		Diatoms								
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و ا	ED AB				2018103	10	15	5	4	8	6	17	
Core No. 7 PC Station No. Total Core Length	ESTIMATED ABUNDANCES (%)				Clay	20	31	15	10	17	12	25	
Corr Stal Tota	ES	Inorganic Material		SD-10	otnas fov she								
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Ship: AII Expedition 123 Leg No. 2	1			SEDIMENT	TYPE	CALC 00ZE	CALC OOZE	CALC 00ZE	NANNO OOZE	CALC DOZE	CALC 00ZE	CALC 00ZE	
Ship:Expedition Leg No				 J	,u t	16 CA							_
				LEVEL		-	110	220	265	365	390	790	
Detailed Description													

SMEAR SLIDE DESCRIPTIONS - M.H.O.I. SEDIMENT CORES

Page 3 of 3

Ship AII Cruise 123 Leg 2 Sta. __ Core No 376

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		Ş	Sponges													!	! ! 		
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CES (Biogenous	Calcareous	pteropods																
ESTIMATED ABUNDANCES (%)	8	3	z[lzzo]onnsM	55	40	70	80	09	70	07	Š	38	88						
D AB			2M6103	92	15	5	4	8	9	11	8	8	١,						
IMATE			Clay	20	31	15	10	17	12	25	31	30	20						
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			SEDIMENT	CALC OOZE	CALC OOZE	CALC 00ZE	NANNO OOZE	CALC DOZE	CALC 00ZE	CALC OOZE	CALC 00ZE	CALC 00ZE	CALC 00ZE						
			LEVEL	16	110	220	265	365	390	765	570	650	770						

Leg 2 11 22 46. 85 1 No. 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Lat. 22-16-9 2 Sto. Core No. 3 PG. Lat. 22-16-93-10 Long. 16-06-72 W Depth -4130 m JENT Date Described 9-304, 92 by P. MILLS SEPIMENT Pulp - MID. ATTANTIC RIDGE. Detailed Description		CALC COZZ 10 YR 6/5 light yellowish brown but slightly darker below 25 cm.	Few 10 YR 7/4 wary pale brown mottles; some sandy Slightly silry lutite with common forans 0-3 cm. shrinkage wold S. CALC 002E 10 YR 6/5 light yellowish brown but slightly	Scattered to common 10 YR 7/4 and 5/4 yellowish brown mottles; most addent from 42.50 cm and	from 65-75 cm. Slightly silty lutite with common forms	Thin foram sand layer at 76-77 cm.												
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Sponges

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Radiolaria

Blogenous Material
Calcareous Siliceous

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SMEAR SLIDE DESCRIPTIONS - M.H.O.I. SEDIMENT CORES

Page 1 of 1

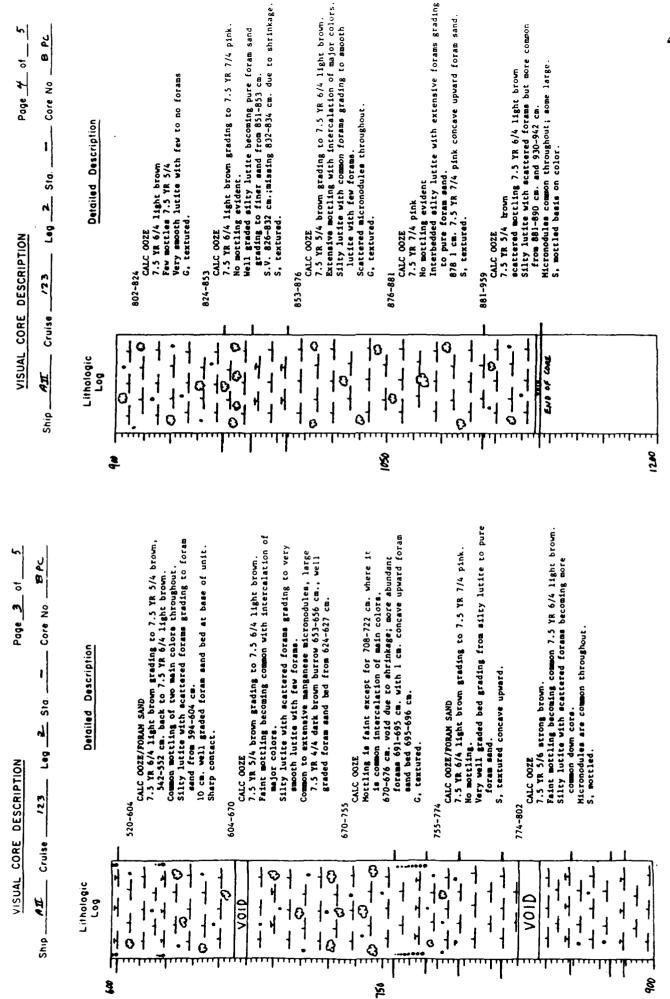
Cruise 123 Leg 2 Sta Core No BPC	Detailed Description	280-280 CALC GOZE 7.5 TR 6/4 light brown 8.14ghtly silty little (very moiet) with common forans \$114ghtly silty little (very moiet) with common forans \$114ghtly silty little (very moiet) with common forans \$114ghtly silty little (very moiet) Silthly silty little (very moiet) 7.5 TR 5/4 brown 7.5 TR 5/4 brown 7.5 TR 6/4 to 6/4. Luttle with far fewer forans. A few scattered Mn micro-modules in zone 294-310 cm. S, motiled. A12-412 CALC GOZE A12-425 cm, 400-412 cm. Gommon 7.5 TR 5/4 brown mottling in the zones Nore compact luttle with increasing foran content to common. S, motiled. 412-426 A12-426 CALC GOZE 7.5 TR 6/4 light brown Were sending throughout Common S, mottled. 412-426 A12-426 A24-426 A24-426 A24-426 A24-426 A25-436 A25-436 A26-514 A26-514 A26-514 CALC GOZE A26-031 A26-514 A26-514 A26-514 Common manganese micronodules 514-520 Sampling Void A26-520	4
23 Leg 2 Sto Core No BPC Ship AII CLOT. 22 46. BY M Long 46 66. 87 W Depth 4475 Date Described 24 484, 1189 by \$ 544415	Mis Anderic Rises	throughout with 7.5 YR 6/4 light Tama; grades to very silty lutite 15 cm. Tades to rore. Tades to 7.5 YR 6/4 light brown Decomes more common at unit base on of major colors Ite with scattered forams Ite with scattered forams Town with rones of 7.5 YR 5/4 brown. Tagint acattered forams. Town with somes of 7.5 YR 5/4 brown. The with scattered forams. Town with scattered forams. Town with somes of 7.5 YR 5/4 brown. Town with scattered forams. Town with scattered forams. Town with scattered forams. Town with scattered forams. Town with scattered forams. Town with scattered forams. Town with scattered forams.	
Ship AIF Cruise 123 Leg Total Length 1134 cm. Lat 22 46. 84 Core condition Exercent D	Physiographic location SERIMENT BNP Lithologic Log	VOID 12-42 CALC GOZE 15-78 3/4 brown 12-42 VOID 12-42 VOID VO	

Page 2 of 5

VISUAL CORE DESCRIPTION

Poge 1 of 5

VISUAL CORE DESCRIPTION



Station No. Total Core Length 1134		Ingranic Material Blogenous Material		Detrital Micronodules Zeolites Volcanic Shards Forans Forans Mannofossils Peropods	30 15 40 3	11 30 10 45 TR 4	2 15 30 3 37 5 8	TR 15 36 5 36 3 5	17 30 5 40 3 5	10 29 15 40 3 3	2 15 30 10 30 8 5	1 S 15 7 70 TR 2	TR 2 17 35 40 4 2	1 20 20 40 10 2	TR 3 5 70 10 8 4	1 15 20 5 49 5 3	TR 5 30 3 50 10 2	2 2 85 10 1	TR 10 30 9 45 5 1	7 20 3 40 20 2	2 10 65 15 4 4	25 5 40
Expedition 123			LAGA1035	TYPE	CALC DOZE	CALC OOZE	ZZ00 5TV3	CALC DOZE	CALC 00ZE	CALC OOZE	CALC OOZE	NANNO OOZE	CALC OOZE	CALC OOZE	CALC OOZE/ FORAM SAND	CALC OOZE	CALC WZE	CALC 002E/ FORAH SAND	CALC OOZE	CALC OOZE	CALC OOZE	CALC OOZE
Expedit Leg No.				LEVEL	13	7.5	165	210	255	272	305	350	727	260	009	650	725	765	790	815	845	870
	CALC GOZE 2.5 YR 6/4 11ght brown Extensive moreline 7.5 YR 5/4 rhroughour	Smooth lutite with few forame grading to salty lutite	Tew very dark mottles 7.5 YR 3/4 dark brown. G. textured.	6 CALC GOZE 7.5 YR 7/4 pink No mottiing avident Foram sand grading to very silty lutite back to foram	sand; 7.5 YR 6/4 light brown. Deformation of bed due to water flow and shrinkage			Common motel ing throughout: intercalation with 7 c	YR 6/4 Light brown.	Large round burrow 1075-1077 cm. 7.5 YR 5/4 1079 cm. 2 mm thick 7.5 YR 7/4 hed concave unward micronodules	common becoming scattered to few down core.			Scattered mottling 7.5 YR 5/4 brown.	1122 CB. McCrondulas 1132-1134 CB. micetto due ro							

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SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

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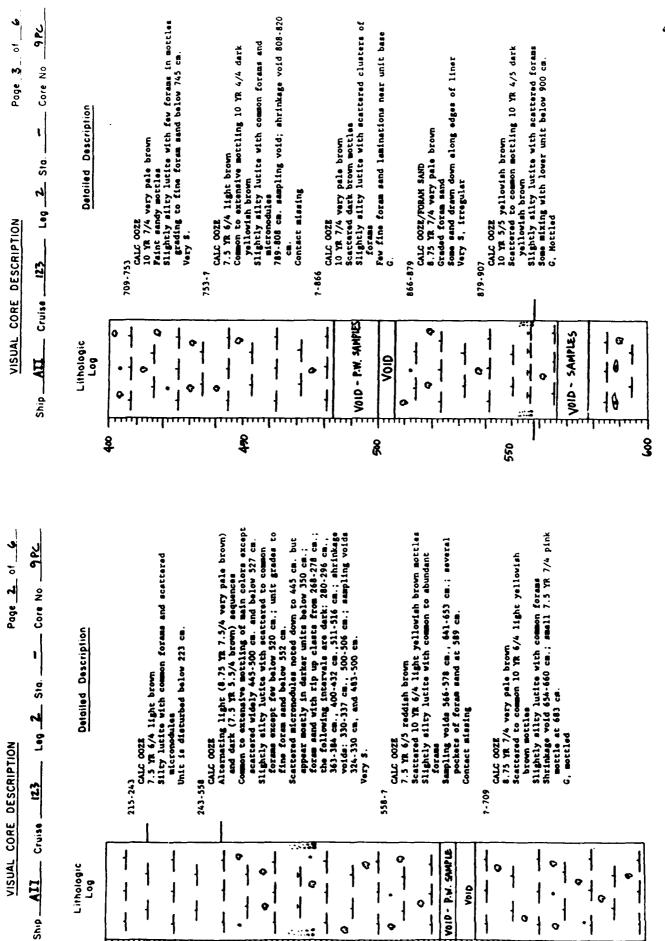
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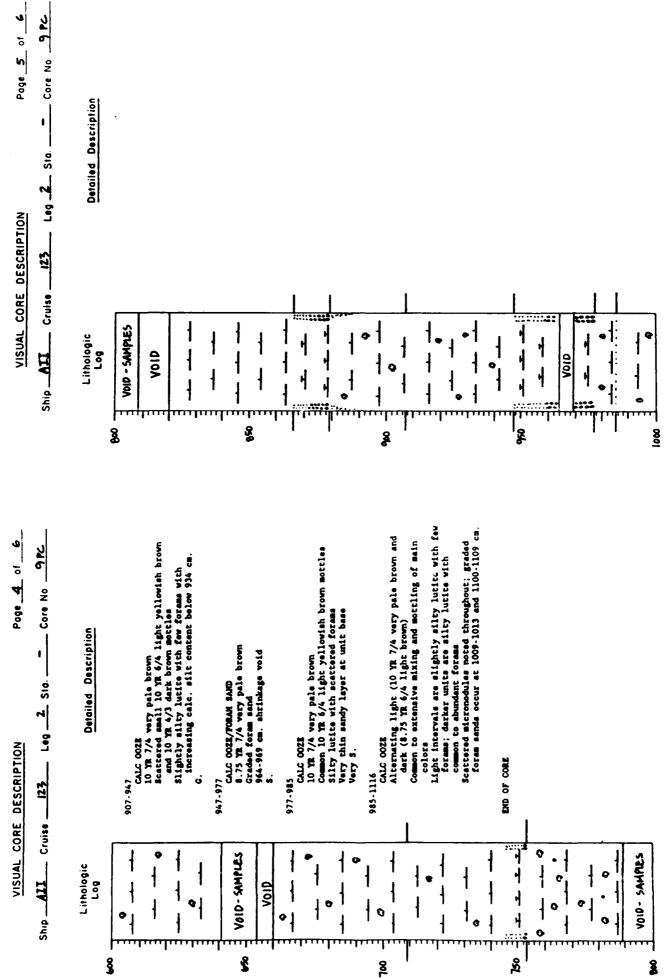
23 Leg 2 Sto. Core No Lot. 22 46.84 / Long. 48.04.81 / Depth -	Dole Described 21 MM P. MILLS DIED SERVENT PART P. MILLS			CALC 002E	7.5 TR 5/4 brown; grades to 7.5 4/4 dark brown. scattered mottling from 20-29 cm. intercalated	## 1.5 IR 5/4 - 7.5 IR 4/4. ##################################	slightly silty lutite with few forams grading to foram sand from 80-83 cm.	well graded foram sand bed at base of unit (80-83 cm.). sharp textural and color.	83-130	CALC OOZE 7.5 YR 5/4 brown	acattered mottling 7.5 VR 4/4 grading to very faint. allty lutite with acattered forans grading to few	forest.	END OF CORE				į								
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		ع ۶	Total Core Length	ESTIMATED ABUNDANCES (X)	+	CI&Y	2	38	20	2	2	2			-									П	
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	TT V	Ition 123	2			SEDIMENT TYPE	CALC 00ZE	CALC 002E	CALC OOZE	CALC OOZE	CALC 002E	CALC 002E													
	Sh1p:	Expedition	Leg No.			LEVEL	880	925	970	992	1055	1120													

SHEAR SLIDE DESCRIPTIONS - M.H.O.I. SEDINENT CORES

Page 1 of 6.

Cruise 123 Leg 2 Sta Core No 9PC 6 cm. Lat. 22'45: 22'N Long 46'06.79'W Depth 4160 m EXCELLENT Date Described 14'54, 12 by P. MILLS alion SEDIMENT Paid - MID ATLANTIC RIDGE	0-12	Sampled for pore water	12-63 CALC OOZE 7.5 YR 6/4 light brown grading to 7.5 YR 5/4 from	Scattered mottling and mixing of main colors becoming extensive below 45 cm. Slightly silty lutite with common forans becoming scattered below 45 cm. Sampling void 30-36 cm.	·	63-65 FORAM SAND	7.5 YR 7.5/4 pink Foram sand	·	65-135 calc 002E	Fair 7.5 M 7/4 pink mottles	Signey sixty futice with common forens 71-77 cm. sampled for pore water; 77-81 cm.	Shinkage void; few microhodules G, mottled	135-195	CALC 002E 8.75 YR 7/4 very pale brown	Few widely acartered mottles with scattered forans Slightly silty lutite	Unit grades to fine forem send below 190 cm. Very S, conceve down	193-215	7.5 YR 5/4 brown	Few 7.5 YR 7/4 pink mottles Slightly silty lutite with common forams	Scattered micronodules G, mottled			
Ship AII Cruise. Total Length 1116 cm Core condition EXC. Physiographic location Lithologic Log	Void - P.W. SAMPLE	0	0	PW. SAMP.	0	14 14 14	VolO - C.W. SAMPLE	VoiP	-+	• 		┤. ┤·	1	1	•	•		1	1	•	 	1	•
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Core No. 8 PG Station No. Total Core Length	ESTIMATED ABUNDANCES (K)	Calcan	\$	Enero? FresolonneM Sbogoras?	05	1	10	5 47															
Core NoStation NoTotal Core	ESTIM	Inorganic Material	\$	Zeolites Volcanic ValCanic	1,8	135	30	04															
		Inorgan	S	Detrital Grain Hicronodule	T. T.	$\vdash \vdash$	1 10	TR S															
Ship: A II Expedition 123 Leg No. 2			SEDIMENT	TYPE	CALC 0028	CALC OOZE	CALC 002E	CALC 00ZE		- 1													
Shtp: Exped				LEVEL	1	78	09	129															





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SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES	Ship: AII Expedition 123	1 1			SEDIMENT TYPE	CALC OOZE	CALC GOZE	CALC OOZE	CALC 00ZE	CALC DOZE	CALC DOZE	CALC DOZE	CALC OOZE	CALC OOZE	CALC 00ZE	CALC DOZE	CALC 00ZE	CALC DOZE	CALC OOZE	CALC OOZE	CALC COZE	CALC OOZE	
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VISUAL CORE DESCRIPTION ALL Cruise 123 Leg 2 Sta. Core No 9PC	Detailed Description												~ •	1									
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Ship: AII Core M Expedition 123 Statio	SEDIMENT SED	4	115 CALC OOZE 1 8 20											
Ship AII Cruise ID3 Leg 2 Sta Core No 9P6 Total Length 122 cm. Lat. 22-45, 22-10 Long. 46-26.49 W Depth 4460 m. Core condition 6-90 D. Date Description Core condition 56-90 Date Description Lithologic Lag Weld - P.W. Simple 0-12	12-66 100- P.W. SAWPLE	3	The state of the s	O Foram sand turbidite	<u> </u>	1	116-122	_	END OF CORE	-	 	· · · · · · · · · · · · · · · · · · ·	····	 ····

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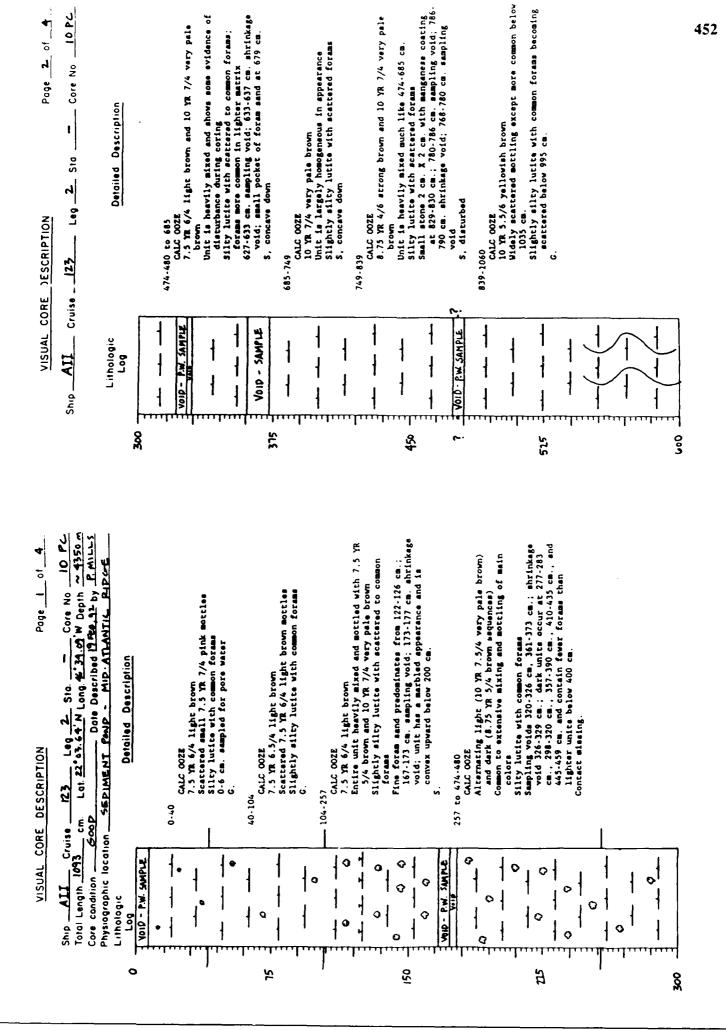
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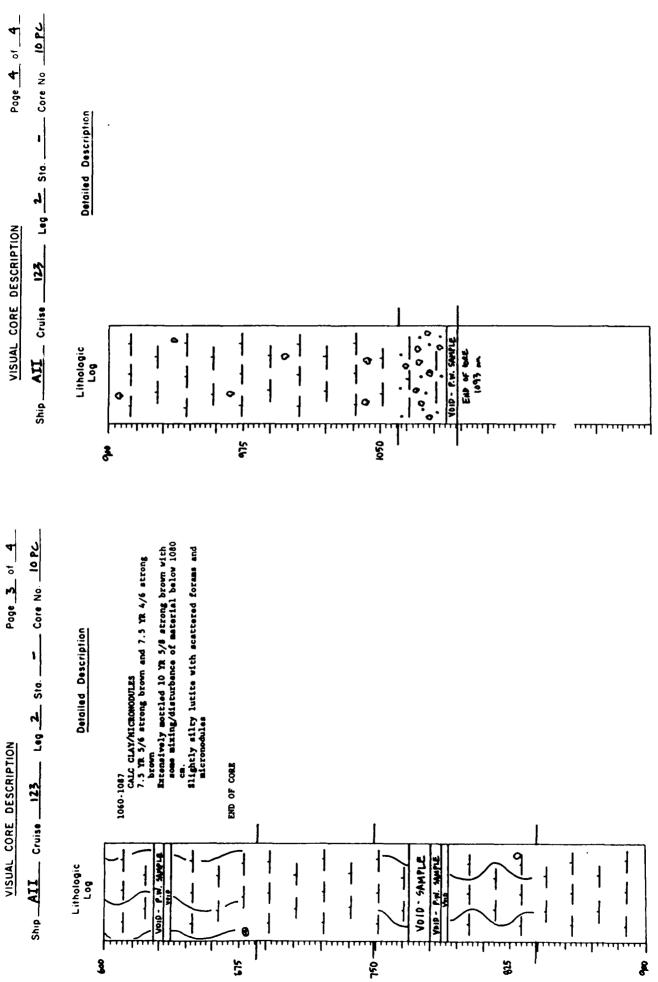
SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES



Page 2 of 4

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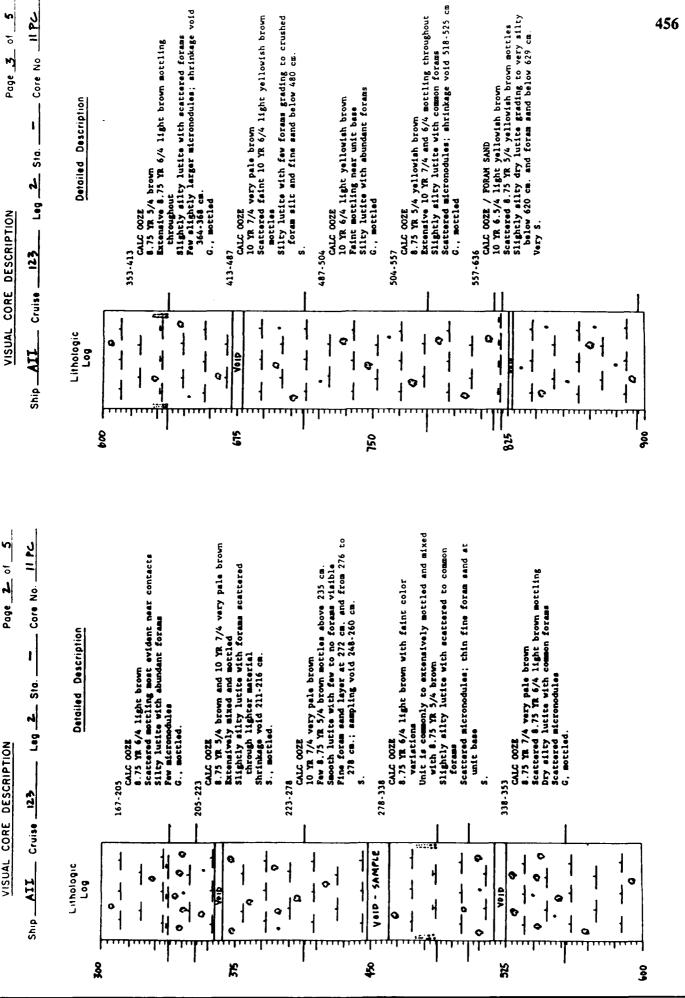
VISUAL CORE DESCRIPTION	Ship AII Cruise 127 Leg 2 Sta — Core No 10 Pc Total Length 122 cm. Lat 22.63.64 N Long 42.46.09 W Depth ~4350 m Core condition EXCELLENT Date Described 12.64.92 by P. Allers Physiographic location 56PIMENT PAND - MIP. ATLANTIC, RIPOFE Lithologic Detailed Description VOID	0-132 CALC 002E Predominately 7.5 NR 6/4 light brown with milghtly lighter and darker regions	Statesred mottling Sightly silty lutite with common to abundant formas 0-4-en shrinkage void; core top unreliable, double penetration confirmed END OF CORE			0	-	1			•		1	200 de CAS	132 am						
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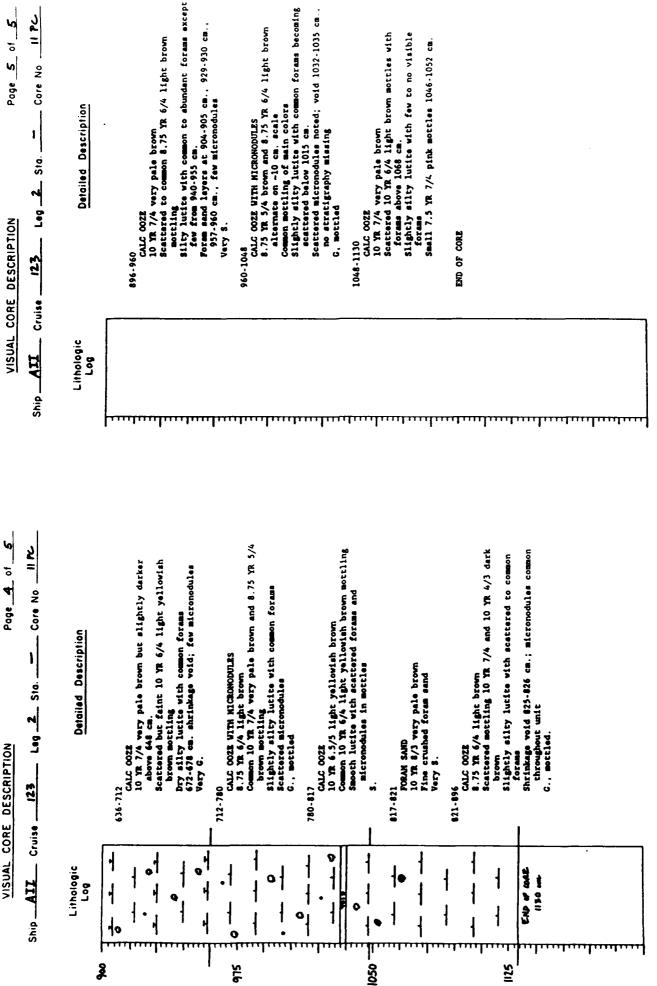
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SMEAR SLIDE DESCRIPTIONS - M.H.O.I. SEDIMENT CORES

Page 1 of 5

Cruise 127 Leg 2 Sto. Core No 11 PC Cres of Lat. 22.01.93 N Long. 4.34.91 W Depth 43.80 m GODE Described EMAS. 32 by F. MILLS. Otto Described EMAS. 32 by F. MILLS. Otto AEPIMENT POND - MID ATLANTIC RIDGE.	acitaista Designad		0-12 FORAH SAND	7.5 YR 7/4 pink	Fine foram sand	12-20 CALC 002E 8.75 YR 6/4 light brown but slightly darker from 16-17 cm. Faint mottling Slightly silty lutite with abundant forams	20.53	CALC OOZE A 75 VB 6/4 16ahr brown	Smooth lutite grading to very fine 7.5 YR 7/4 nink and halow 5.2 cm	3.	53-74 CALC 002E	7.5 YR 5.5/4 brown grading to 10 YR 6.5/4 pale brown below 67 cm.	Common mottling of main colors below 63 cm. Slightly after lutte with common forms becoming	scattered below 60 cm. as calc. silt content	Thin crushed foram sand at 73-74 cm.; forms unit	s.	74-167 CALC COZE	7.5 YR 5/5 strong brown becoming slightly lighter	Scattered to common mottling 7.5 YR 6/4 light	Slights filty lutite with common to abundant forms	Micronodules common above 120 cm.;, scattered	G., mottled,		_1	
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SMEAR SLIDE DESCRIPTIONS - M.H.O.I. SEDIMENT CORES

SMEAR SLIDE DESCRIPTIONS - M.H.O.I. SEDIMENT CORES

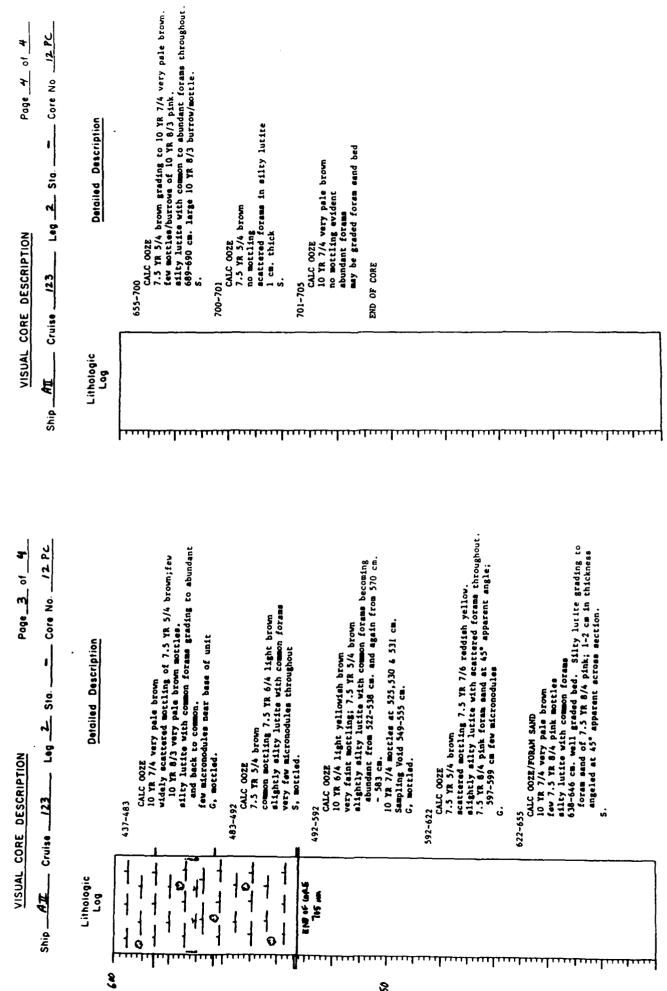
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	3 Station No.	1150	ESTIMATED ABUNDANCES (%)	Biogenous Materi	Celcercous	Detrital Qualita Arains Menodules Total Mannofossils Peeropods Others Discons Discons Discons Discons	TR 6 23 20 45 1 5	TR 4 18 5 45 20	TR 5 15 25 43 5	TR 4 21 10 60 2	TR 6 23 15 48 3	TR 4 20 3 50 20	TR 5 13 2 75 2	3 8 6 79 TR	2 8 16 3 65 2	TR 4 15 9 45 20	TR 5 14 10 65 1	1 7 26 6 45 10	TR 4 20 5 41 22	TR 2 10 7 75 1	1 15 24 9 35 10	TR 4 20 10 26 30	1 8 26 17 40 3	1 3 20 18 36 15
	123 Station No.	Total Core Length 1950	ESTIMATED ABUNDANCES (%)	Biogenous Materi	Celcercous	Detrital Qualita Arains Menodules Total Mannofossils Peeropods Others Discons Discons Discons Discons	TR 6 23 20 45 1 5	TR 4 18 5 45 20	TR 5 15 25 43 5	TR 4 21 10 60 2	TR 6 23 15 48 3	TR 4 20 3 50 20	TR 5 13 2 75 2	3 8 6 79 TR	2 8 16 3 65 2	TR 4 15 9 45 20	TR 5 14 10 65 1	1 7 26 6 45 10	TR 4 20 5 41 22	TR 2 10 7 75 1	1 15 24 9 35 10	TR 4 20 10 26 30	1 8 26 17 40 3	1 3 20 18 36 15
Core No.	123 Station No.	Total Core Length 1150	ESTINATED ABUNDANCES (%)	Biogenous Materi	Celcercous	Detrital Arains Zeolites Zeolites Mannofossils Peropods Disconsters Others Disconsters	6 23 20 45 1 5	4 18 5 45 20	5 15 25 43 5	4 21 10 60 2	6 23 15 48 3	4 20 3 50 20	5 13 2 75 2	8 6 79 TR	8 16 3 65 2	4 15 9 45 20	5 14 10 65 1	26 6 45 10	4 20 5 41 22	2 10 7 75 1	24 9 35 10	4 20 10 26 30	8 26 17 40 3	20 18 36 15
Core No.	Station No.	Total Core Length 1950	ESTINATED ABUNDANCES (%)	Biogenous Materi	Celcercous	Detrital Arains Detrital Arains Arains Detrital Arains Detrital Arains Detrital Arains Detrital Arains Detrital Detrital Distoms Distoms	TR 6 23 20 45 1 5	TR 4 18 5 45 20	TR 5 15 25 43 5	CALC COZE TR 4 21 10 60 2	CALC COZE TR 6 23 15 48 3	CALC GOZE TR 4 20 3 50 20	CALC 002E TR 5 13 2 75 2	CALC 002E 3 8 6 79 TR	CALC COZE 2 8 16 3 65 2	CALC 002E TR 4 15 9 45 20	CALC COZE TR 5 14 10 65 1	CALC COZE 1 7 26 6 45 10	CALC QOZE TR 4 20 5 41 22	CALC GOZE	CALC OOZE W/ 15 24 9 35 10	CALC DOZE TR 4 20 10 26 30	CALC COZE 1 8 26 17 40 3	CALC 002E 1 3 20 18 36 15
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CORE DESCRIPTION	Cruise 123 Leg 2 Sto. Core No. 11 PG. 135 cm. Lat 22° 61. 93° N. Long. 45° 24. 11° W. Depth ~4320.m. EXCELLENT Dote Described 25° 66. 12 by P.MILLS location SEDIMENT POND - MID. ATLANTIC RIDGE Detailed Description	CALC COZE 10 YR 6/4 light yellowish brown Scattered but faint 10 YR 7/4 very pale brown mottles 81ightly silty lutite with abundant foress 0-3 cm. shrinkage void 6, mottled	CALC COZE 7.5 YR 6/4 light brown except 5/4 brown from 45-55 8cattered 7.5 YR 6.5/4 light brown mottles except common mottling with intercalation from 45-55 cm. \$lightly silty lutite with common forams 5.	CALC COZE 8.75 YR 6/4 light brown Unit is mixed and mottled with 8.75 YR 7/4 very pele brown Silty lutite with abundant foreas Thin 7.5 YR 7/4 pink lamination at 81 cm. 6, mottled	95-107 CALC COZE 8.75 YR 7/4 very pale brown 8.75 YR 7/4 very pale brown Scattered small 8.75 YR 6/4 mottles with few forams Smooth compact lutite Very 8.	SUSPECTED REPERENTION END OF CORE
VISUAL CO	Ship AII Cruis Total Length 135 Core condition El Physiographic location Lithologic Log		00000	1000	SUCPECTED REPENETRATION END of CORE	
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SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

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Expedition 123 Leg No. 2			SEDIMENT TYPE	CALC OOZE	CALC OOZE	CALC OOZE	CALC DOZE									
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VISUAL CORE DESCRIPTION Page 2 of 4	Ship Att Cruise 123 Leg 2 Sta Core No 12 PC	Lithologic Detailed Description	200-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0	Slightly silty lutite with scattered forams. 327-345 OLIC GOZE OLIC GOZE OLIC GOZE OLIC GOZE Very faint mottling 7.5 VR 4/4 dark brown at rop of	unit. Slightly silty lutite with scattered forams; common forams in 7.3 YR 6/4. 7.5 YR 4/4 dark brown layer from 329-331 cm.; 7.5 YR 6.4 light brown layer from 336-339 cm.; few manganese micronodules at base of unit.	450 450 450 450 450 450 450 450	CALC COZE CALC COZE CALC COZE CALC COZE CALC COZE COMMON MOTELLING 7.5 YR 5/4 brown Silty lutite with abundant forams. S. mottled.	CALC 002E 7.5 YR 5/4 brown Common mottling, 7.5 YR 4/4 dark brown, some inter- calation of major colors. Slightly ality lutite with common forams. Scattered micronodules throughout. G, mottled.	46
VISUAL CORE DESCRIPTION	Length Cruise 123 Leg 2 Sto. Core No 12 PC Length Cm Lat. 22, 63, 53 N Long 16, 34, 62 N Depth 44/96 m condition Exceptibly Date Described 12 Pec, 199 by P. Hitts	location September Bull	VOID -0-12 12-77 -ALC 002E 7.5 YR 6/4 light brown grading to 7.5 YR 5/4 brown	from 23 to 30 cm. Faint mottling from 24-50 cm.; 7.5 YR 6/4 light brown. Silty luttle with common forans G. 77-113	7.5 YR 5/4 brown Faint mottling 7.5 YR 6/4 light brown; sampling void from 87-93 cm. Silty luttle with common forans. Two 7.5 YR 4/4 brown layers 105-107 cm. and 110-113 cm. with 7.5 YR 5/4 mottles common. S. mottled.	113-230 CALC GOZE 7.5YP. 5/4 brown Very faint mottling 7.5YR 4/4 dark brown and 7.5YR 6/4 light brown throughout Slightly silty lutite with compon forame 5, mottled, convex up	230-265 CALC 002E 7.5 YR 5 brown Common to extensive mottling 7.5 YR 4/4 dark brown. Scattered forams becoming common 255-260 cm. greater abundancy of forams. 6, mottled color only.	265-309 CALC GOZE 7.5 YR 6/4 light brown 7.5 YR 5/4 brown. Paint mottling throughout 7.5 YR 5/4 brown. Two 7.5 YR 5/4 brown bands 271-273 cm. and 278-281 cm.	1 1 1 1



SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

SMEAR SLIDE DESCRIPTIONS - M.H.O.I. SEDIMENT CORES

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203	Station No	Total Core I	ESTIMATED ABU	ľ		Grains Micronodules Zeolites Volcanic Shards Clay Clay Forams	17 15	23 20	40 10	38 10	39 7 40	50 5 40	38 4 45	33 7 50	40 8 43	38 5 50	8 35 10 45	36 5 55	7 45 3 40	35 3 55	2 44 5 45	TR 10 70 15	34 3	32 15
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Ship: A 11 Core Expedition 123 Stati	SEDIMENT SEDIMENT SEDIMENT SEDIMENT TYPE TYPE TYPE TYPE SEDIMENT SEDIMENT TYPE SEDIMENT TYPE SEDIMENT TYPE SEDIMENT TYPE SEDIMENT TYPE SEDIMENT TYPE SEDIMENT TYPE SEDIMENT TYPE SEDIMENT TYPE SEDIMENT TYPE SEDIMENT TYPE SEDIMENT TYPE	20 CALC OOZE 10 40 CALC OOZE 15 70 CALC OOZE 15 92 CALC OOZE TR 15 120 CALC OOZE 15		
Ship All Cruise 123 Leg 2 Sta. Core No 12 PG Total Length 133 cm. Lat 22° 63.53° M Long 16° 34.62° W Depth 14796 m Core condition Excellent Date Described 10 DEC 188° by P. Mills. Physiographic location Element Base Mills Mills. Lithologic Lag Detailed Description	CALC GOZE 7.5 YR 5/4 brown very feath 7.5 YR 6/4 mottling grading to no mottling at 15 cm; mottling reappears near bottom contact. allty luttee with common forams few macronodules 6, mottled. 30-47 CALC GOZE 7.5 YR 4/6 etrong brown heavily mottled with intercalation of 7.5 YR 5/4 brown.	47-87 CALC GOZE 7.5 YR 5/6 strong brown. very faint mottling of major colors throughout. silty lutite with forans common throughout. videly scattered micronodules. 5, color.	CALC COZE 10 YR 5/4 yellowish brown faint 10 YR 5/3 brown mettling throughout except from 96-100 cm. 1153 — CALC COZE 211ty lutite with abundant forans 96-100 cm. layer of alightly silty lutite 7.5 YR 5/4 96-100 cm. layer of alightly silty lutite 7.5 YR 5/4 brown with scattered forans. Paint 10 YR 5/4 yellow- tab brown motiles; acattered mini micronodules throughout. G, mottlad.	CALC COZE CALC COZE 7.5 YR 5/4 brown common 7.5 YR 6/4 mottling grading to faint. alightly silty lutite with common forame throughout. scattered an micronodules below 125 cm. Convex up section missing; 130-133 cm. (core catcher) END OF CORE
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Pteropods

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Clay Volcanic shards 35 45 8 35

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Blogenous Material
Calcareous Siliceous

ESTIMATED ABUNDANCES (X)

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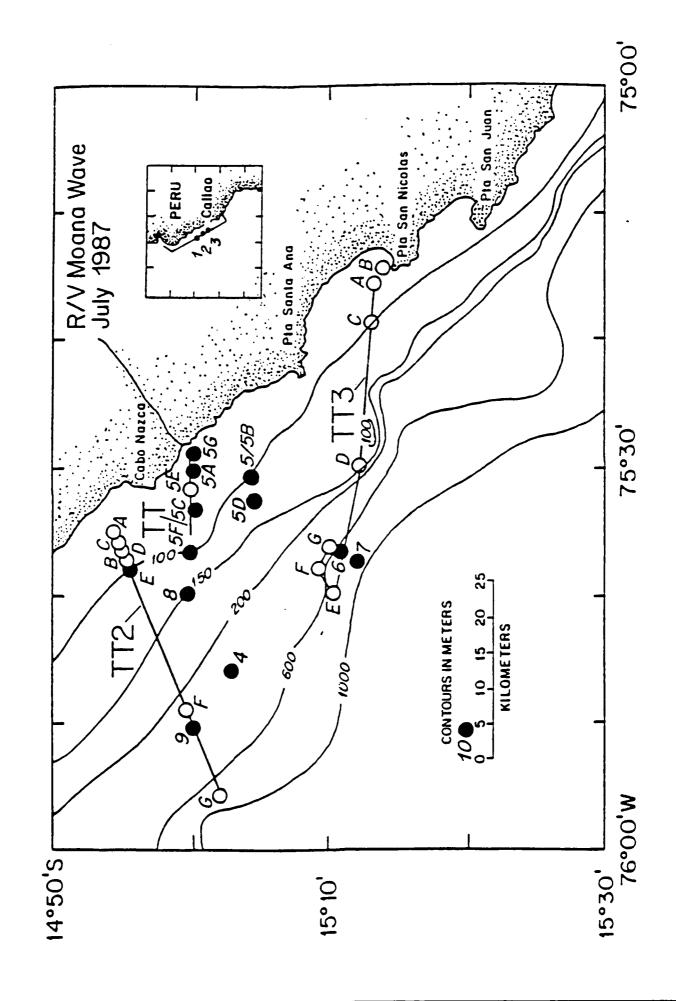
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Total Core Length

Station No.

Core No. 12 PG

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES



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** CRUISE SHIP	MWV 87 MWV 87	MWV 87

THERE WERE 24 ITEMS THAT MET YOUR REQUIREMENTS.

THANK YOU FOR USING PROGRAM MUDDIE.

Ship: NA Core	Expedition 87 Stati	Leg No. 08 Total	ESTI Inorganic Material	[443440]	2 4	10 80	NODULES 2 40	19 DETRITUS/ MICRONODULES 40 56	09										
Ship MW Cruise B7 Leg 06 Stg. 1 Core No 1 BC. Total Length 24 cm. Lot 10/22/17/5 Long 16/31/22 W Depth 255 m. Core condition 6000 Date Described 2406, 92 by F. MILLS. Physiographic location FERU CONTINENTAL MARKIN	Lithologic Detailed Description	4	CALC-SILIC DOZE 5 Y 3/1 very dark grey with large 5 Y 5/2 olive	11-16 11-16 11-16		16.23 DETRITUS/MICRONODULES	5 Y 2.5/1 black Very silty clay	Large irregular void below 18 cm.	23-24	SLIGHTLY SILIC CLAY/DETRITUS 5 1 4 - 1 derk gray 5 1 5 clay	The state of the s		717	 •	.	 	***	 	

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

VISUAL CORE DESCRIPTION

Silicoflagellates

Biogenous Material
Calcareous Siliceous

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Total Core Length ____

Station No.

1 BC

Core No.

ESTIMATED ABUNDANCES (%)

Sponges

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SMEAR SL	£	Expedition 87	lo08		SEDIMENT	TYPE		SILIC-CALC DOZE WITH	DETRITUS AND MICRONODULES	SILIC-CALC														
	Shfp:	Exped	Leg No.		Š			240		995														
VISUAL CORE DESCRIPTION	Gen Lat. 11-64.21.5 Long 16.07.14 W Depth 244 m	ì		0.516 NO LONGER IN WHOI STORAGE	516-579 SILIC CALC GOZE WITH DETRITUS AND MICRONODULES 5 Y 4.5/2 olive gray with 5 Y 6/4 pale olive bands and leminations	Sity distonaceous lutite Core is dry and brittle below 571 cm.	END OF CORE						{											
VISUAL C	Ship AW Cruise Total Length 519 cm. Core condition 600	Lithologic	NOTE .	7 0-516 E	NO LONGER IN NEO! STORAGE	\ \{ \{ \}	{ {	{ { { {	{ {	{ { {	{	{ { {		579 ce core										
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Silicoflagellates

Biogenous Material
Calcareous | Siliceous

ESTIMATED ABUNDANCES (%)

Inorganic Material

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Total Core Length ___

Station No.

1 PC

Core No.

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

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Pteropods

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SMEAR SLIDE DESCRIPTIONS - M.H.O	Ship: Mil	tion 87	Leg No Total	1153	Inorganic Material	\$3	Estrital farg fargolomorol cestros contres	Z H	3 15	MICRONODULES	SULIC CLAY	NODULES AND	65 WITH MICRO-	NODULES							
	Ship MW Cruise 87 Leg ob Sto. 2 Core No. 2.5C. Total Length 66 cm. Lat. 11.04.21.5 Long. 18.87.14 W Depth 2.55 m. Core condition 600P. Physiographic location PERU CANTINENTAL MARAIN		4	STITE-GALE DOZE	5 Y 4/2 olive gray with large 5 Y 5/2 olive gray	Silty distrementation for the statement for an Splotches of lighter material not thought to be original features; organic material: fish	50 SILIC-CALC DOZE WITH MICRONODULES	5 Y 2.5/1 black with olive gray splotches	E.D of LARL	26-66	5 Y 2.5/I DELECTED WITH MICHONOLULES AND DETRITUS	Laminations inclined 15°; slightly lighter siltier		END OF CORE	 			,,,,	ļ		

Rosallogellates w E sabuods

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Discoasters

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Pteropods

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Biogenous Material
Calcareous Siliceous

ESTIMATED ABUNDANCES (%)

Total Core Length

Station No. Core No.

SMEAR SLIDE DESCRIPTIONS - M.H.O.I. SEDIMENT CORES

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SMEAR SLIDE DESCRIPTIONS - W.H.O.		3	8	8			Ħ	141		ıc	그 2	HITH	21								l		ļ		ł	
S			ا ج				SEDIMENT	TYPE		CALC-SILIC	SILIC-CALC	NODULES WITH DETRITUS	SILIC-CALC OOZE					ĺ	-		ļ	j				
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1	Core No 2 B	2				6/2 light oli	comon forans		TH DETRITUS	.44 cm.			•													
Page 1 of	Core No 2 B	Rein				y 5 Y 6/2 light oli	ith common forans		S WITH DETRITUS	s 42-44 cm.		:	• Incre													
1	Core No 2 B 605.14 W Depth 252	MARGIN	ption			h many 5 Y 6/2 light oli	ite with comon forans		ODULES WITH DETRITUS tered forans	d from 42-44 cm.		,	ceous fucite													
1	Sta. 2 Core No 2 B ong. 16.03.14 W Depth 252 Described 26.454, 92by P. Mil	AL MARGIN	scription			y with many 5 Y 6/2 light oli	Victo with comon forans		ICROMODULES WITH DETRITUS scattered forens	noted from 42-44 cm.		gray	TOPECOOR INCIDE													
1	26 Sta. 2 Core No 2 8 2 Long 16 9 14 W Depth 252 01e Described MARK 12by F. Mil	ENTAL MARGIN	d Description			gray with many 5 Y 6/2 light oli	silty lutite with comon forans		DZE/MICKOWODULES WITH DETRITUS Ack with scattered forans	lons noted from 42-44 cm.	;	olive gray	cy alecomaceous lucice													
Page		ITINENTAL MARCIN	tailed Description		IC COZE	olive gray with many 5 Y 6/2 light oli plotches	sous silty lutite with common foress		LC COZE/MICRONODULES WITH DETRITUS 2 black Helte with scattered forans	winations noted from $42-44$ cm.		dark olive gray	sity distomateous lutite													
Page	Leg <u>ob</u> Sto. <u>2</u> Core No <u>2 B</u> 1.04.21 S. Long 16.03.14 W Depth <u>252.</u> Date Described #4084, 34by P. Mil	CONTINENTAL MARGIN	Detailed Description		C-SILIC OOZE	4/2 olive gray with many 5 Y 6/2 light oli	tomaceous silty lutite with common forans		IC-CALC COZE/MICKONODULES WITH DETRITUS 2.5/2 black ty lutite with scattered forams	nt laminations noted from 42-44 cm.		10-CALC COZE 3/2 dark olive gray	furly sity discommens lutice	2												
Page	Leg	EAN CONTINENTAL MARGIN	Detailed Description		CALG-SILIC OOZE	5 Y 4/2 olive gray with many 5 Y 6/2 light olive gray splotches	Disconceous silty lutite with common forans G.		SILIC-CALC GOZE/MICROMODULES WITH DETRITUS 5 Y 2.5/2 black Silty lutite with scattered forems	Faint laminations noted from 42-44 cm. G.		SILIC-CALL DOZE	signity sitcy discommended lucity	F CORE												
1	87 Leg Lot !! '04.2!	EAN CONT	Detailed Description			5 % 4/2 olive gray with many 5 % 6/2 light oli gray aplotches	Distonaceous silty lutite with common forans G.		SILIC-CALC GOZE/MICROMODULES WITH DETRITUS 5 Y 2.5/2 black Silty lutite with scattered forens	int laminations noted from 42-44	75-87	Silliciant Corr 5 Y 3/2 dark olive gray	structy sity discommended incide	END OF CORE												
DESCRIPTION Page 1	87 Leg	PERV CONTI	Detailed Description		0-18 CALC-SILIC 002E	5 Y 4/2 olive gray with many 5 Y 6/2 light oli gray splotches	Distonaceous silty lutite with common forans	18-48	SILIC-CALC GOZE/MICROMODULES WITH DETRITUS 5 Y 2.5/2 black Silty lutite with scattered forens	int laminations noted from 42-44		SILIC-CALC COZE 5 Y 3/2 dark olive gray	eating greensed distriction	END OF CORE	1	}										
CORE DESCRIPTION	Cruise 87 Leg. 4 cm. Lot. 11 04.21 6900	PERV CONTI	Detailed Description			5 Y 4/2 olive gray with many 5 Y 6/2 light oli gray splotches	Disconnection of the control of the		SILIC-CALC GOZE/MICRONODULES WITH DETRITUS S Y 2.5/2 black Siley lutite with scattered forms	int laminations noted from 42-44		Still-Gall 002k 5 Y J dark olive gray	Stigning sity discommended incite	END OF CORE		4	2									
CORE DESCRIPTION	54 cm. Lat. 11 04.21 6000	location PERN CONT.		 		5 Y 4/2 olive gray with many 5 Y 6/2 light oli gray aplotches	Distonaceous silty lutite with common forame		SILIC-CALC GOZE/MICKONOBULES WITH DETRITUS 5 Y 2.5/2 black Silty lutite with scattered forens	int laminations noted from 42-44		54 Silicano 002g	Stignery sitty discommended incite		<u> </u>	4	\$ CAC									
DESCRIPTION Page 1	54 cm. Lat. 11 04.21 6000	location PERN CONT.		1		5 Y 4/2 olive gray with many 5 Y 6/2 light oli gray spletches	Distonaceous silty lutite with common forans G.		SILIC-CALC GOZE/HICROMODULES WITH DETRITUS SY 2.5/2 black Silty lucite with scattered forens	int laminations noted from 42-44		54 SILIC-CALC 002g	The transfer of the composition		<u>ا</u> ب	4	8							 		
CORE DESCRIPTION	54 cm. Lat. 11 04.21 6000	location PERN CONT.		 		5 Y 4/2 olive gray with many 5 Y 6/2 light oli gray splotches	Discomaceous silty lutite with common forems		3 Y 2.5/2 black S Y 2.5/2 black S Y 2.5/2 black Silty lutite with scattered forms	int laminations noted from 42-44		Sure State of the gray	eating arecommended attraction and the state of the state		<u> </u> 	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	END of Local									
CORE DESCRIPTION	Cruise 87 Leg.	location PERN CONT.	o o	4		10 Stay aplotches	Distonaceous silty lutite with common forans		SILIC-CALC GOZE/MICRONODULES WITH DETRITUS SY 2.5/2 black Siley lutite with scattered forms	int laminations noted from 42-44	4	Sur Still-Gall Out	40		ا ۲ ۲	< - 1 - 4	8	· · · · · · · · · · · · · · · · · · ·		••••	 •••			 ···	••••	

IONS - W.H.O.I. SEDIMENT CORES

Silicoflagellates

Biogenous Material
Calcareous Siliceous

ESTIMATED ABUNDANCES (X)

Total Core Length

Station No. 2

Core No.

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Spondes

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SEDI.	SILIC-OOZE WITH MICRO- NODULES SILIC-CALC OOZE WITH MICRONODULES SILIC-CALC SILIC-CALC MICRONODULES MICRONODULES	HIGHLY SILIC CLAYDERITUS SILIC GOZE/ DETRITUS MITH HICRONODULES
Ship: Expedit	6 60	133
ruise 81 cm. L EXCELLEN from L 0-121	AIGHLY SILIC CLAY/DETRITUS S Y 5/2 olive gray SILIV justice with common black organic flacks Turbidite Very 8. 125-134 SILIC COZE/DETRITUS WITH MICRONODULES S Y 2.5/2 black with slight color variations Silty justice	END OF CORE
Ship MW Core condition 131 Core	<pre></pre>	4 4 4 4 8 <u>8 6 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 </u>
o %	ltt	8

SMEAR SLIDE DESCRIPTIONS - M.H.O.I. SEDIMENT CORES

Page 1 of 1

VISUAL CORE DESCRIPTION

Stricoflagellates

Biogenous Material Calcareous Siliceous

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Total Core Length _____132 ESTIMATED ABUNDANCES (%)

Core No. 2 GGC Station No. 2 sabuods

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Radiolaria

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Pteropods

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Ship AND Cruise B1 Leg OB Sio 4 Core No 3 St. Core condition 6200 Lost 1676-16 Long 1848-0 W Depth 210m Christophic location 752 cm. Lot 1676-16 Long 1848-0 W Depth 210m Limbologic Defolied Description 100 23 SIIIC-CALC CORE 1100-0 Silic-CAL	

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SHEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES	3	Expedition 87	No. 08				SEDIMENT	ТУРЕ	SILIC-CALC 00ZE	SILIC-CALC 002E	SILIC-CALC OOZE WITH	MICRONODULES	SILIC-00ZE/ MICRONODULES	WITH DETRITUS					
	Sh1p:	Expe	Leg No.				E VEI		~	3	4		8						

VISUAL CORE DESCRIPTION

VISUAL CORE DESCRIPTION Page 1 of 1	Ship MW Cruise 87 Leg 0B Sta. 4 Core No. 3 SC. Total Length 91 cm. Lat. 15°06. 16°5 Long 75°42.09° W Depth 254 m Core condition 6000 Lat. 10°06. 16°5 Long 75°42.09° W Depth 254 m Core condition 6000 Lat. 10°06. 16°5 Long 75°42.09° W Depth 254 m Core condition 6000 Lat. 10°06. 16°5 Long 15°42.09° W Depth 254 m Core condition 756 Lat. 10°06. 16°5 Long 15°42.09° W Depth 254 m Lithologic Detailed Description	SILIC-CALC DOZZ SILIC-CALC DOZZ Publiches Publiches SILIC-CALC DOZZ S
RE DESCRIPTION	ISO 87 Leg 88 Sto. 4 Core No 2 PC Cm. Lat. 15° 06-16' \$ Long. 75'42.69' W Depth 210 m. Date Described by SEMMEIPER Detailed Description	Dark olive gray 5 Y 3/2 with many 5 Y 4/4 olive laminations throughout; a few black laminations also found also found of olive 5 Y 4/4 material found in a few locations of olive 5 Y 4/4 material found in a few locations of white with areas of wriffer sediment corresponding to thicker sequences of laminations and sany sequences of olive laminations (-5-5cm, thick) and up to 18 cm, thick; Black laminations (-5-1cm, thick) and up to 18 cm, thick; Black laminations (-5-1cm, thick) and up to 18 cm, thick; Black laminations (-5-1cm, thick) and up to 18 cm, thick; Black laminations (-5-1cm, thick) and as as 224-331 cm; many non-conformable contacts also present; stratigraphy well preserved throughout
VISUAL CORE	Ship MW Cruise Total Length Seb cr Core condition Physiographic location Lithologic Log	Note: Core is the core is a second control of the core is a second core is a second core is a second core is a second core is a second core is a second core in the core is a second core in the core is a second core in the

Cruise 87 Leg OB Sta. 4 Core No. 666C Cm. Lat. 15°6C. 16' S. Long 75°42.09' W Depth 247 m COOD Date Described 154mil. 32 by P. MILLS ation Described Description	0.18		Soltered 3 Y 5/4 olive diatomaceous features	0.2 cm. shrinkage void; 2.5 cm. (top 3 cm. of 0.2 cm.shrinkage void; 2.5 cm. (top 3 cm. of core) sampled for organic geochemistry; core is disturbed above 11 cm. and perhaps down to 18 cm.	SILIC 0028 SILIC 0028 SY 3/2 dark olive eres with shundary 5 V 6/2 call	olive laminations	Laminations are generally only partially formed and contain clumps of diston rich material		END OF CORE														
Ship MW Cruise Total Length 30 c Core condition 650 Physiographic location Lithologic Log Valle	25041.60	4	ا ا	1.5	₹	BND of CAR	<u> </u>	.بل.	111	111	.1	n‡n	тт	****	711	ul.	777	***	.1	1111	····I	777	,
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Ship: MA Expedition 87 Leg No. 08				SEDINENT TYPE	SILIC-CALC	SILIC-CALC	MICRONODULES	SILIC-CALC	SILIC OOZE WITH MICRO-	NODULES	SILIC-CALC 002E												
Ship: Expedit Leg No.				LEVEL	7	25		07	09		88												

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

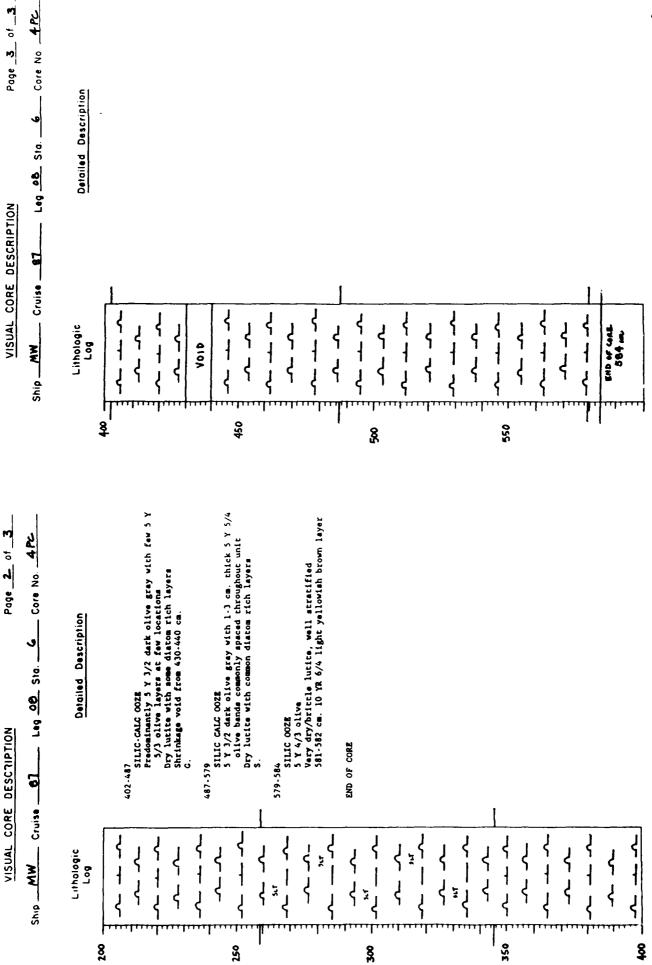
uise 87-08 Pubs Leg Sto. 4 Core No. 3 PC. cm. Lat. 15°06.16'S Long. 15°42.09 W Depth 250m GOOD Date Described 24°68.129 by P. Mills ion Contineutific Margin - PCRU Detailed Description	0-17	SILIC GOZE WITH DETRITUS 5 Y 3/2 dark olive gray	Silfy lutte with fine dark and light laminations Shrinkage wold 0-8 cm. S. DIATON GOZE S Y 4/3 olive Silty lutte	Several 5 Y 6/6 olive yellow laminae; dark 5 Y 3/2 layer at 21-23 cm.	28.48	SILIC 002E 5 Y 3/2 olive gray Silty lutite	Shrinkage void 33-36 cm.	48.89 SILIC 002E Predominantly 5 Y 4/3 olive bur 4 Y 1/2 from 55 71	Silty lutite becoming very fine silt near unit	Several quite silty laminations and bads 5 Y 6/6 and 5 Y 5/3 olive concentrated in regions 53-65 cm.: fossiltand versets at 47.00	. E.O.	89-150 SILIC OOZE	 5 Y 3/2 dark olive gray Silty lutite with several silty laminae and beds throughout 	Small void at 100 cm.; shrinkage void from 124-136 cm.			•
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Core No. 6 GG Station No. 4 Total Core Length	Increased the band of	Silt & Sand	Detrital Micronodules Zeolites Volcanic Shards	8 6 20	3 4 20												
Ship: HW Expedition 87 Leg No. 08			LEVEL SEDIMENT TYPE	10 SILIC-CALC	29 SILIC-00ZE												

Ship Made with Cruise 97-06 Pubs 1 Leg Sta. 4 Core No 3 P.C.	Lithologic Detailed Description	299-386 SILIC COZZ UTH DETRITUS SILGERLY allty lutina at 308-315 To 12 date olive gray SILGERLY allty lutina at 308-316 SILIC COZZ UTH MICRONOULES SILIC COZZ UTH MICRONOULES SILIC COZZ UTH MICRONOULES SILIC COZZ UTH MICRONOULES SILIC COZZ UTH BICRONOULES SILIC COZZ UTH BICRONOULES SILIC COZZ UTH BICRONOULES SILIC COZZ UTH DETRITUS SILIC COZZ UTH DETRITUS SILIC COZZ UTH DETRITUS SILIC COZZ UTH DETRITUS SILIC COZZ UTH DETRITUS SILIC COZZ UTH DETRITUS SILIC COZZ UTH DETRITUS SILIC COZZ UTH DETRITUS SILIC COZZ UTH DETRITUS SILIC COZZ UTH DETRITUS SILIC COZZ UTH DETRITUS SILIC COZZ UTH DETRITUS SILIC COZZ UTH DETRITUS SILIC COZZ UTH DETRITUS SILIC COZZ UTH DETRITUS AT 372 datk clive gray MAINT S Y 4/3 clive with S Y 3/2 datk clive gray MAINT S Y 4/3 clive with S Y 3/2 datk clive gray MAINT S Y 4/3 clive with S Y 3/2 datk clive gray MAINT S Y 4/3 clive with S Y 3/2 datk clive gray MAINT S Y 4/3 clive with S Y 3/2 datk clive gray MAINT S Y 4/3 clive with S Y 3/2 datk clive gray MAINT S Y 4/3 clive with S Y 3/2 datk clive gray MAINT S Y 4/3 clive with S Y 3/2 datk clive gray MAINT S Y 4/3 clive with S Y 4/3 clive SILIC COZZ UTH DETRITUS AND MICROMODULES S Y 3/2 datk clive gray grading to S Y 4/3 clive SILIC COME WAS devented at 150 cm. gray SILIC COME WAS devented at 150 cm. gray SILIC COME WAS devented at 150 cm. gray SILIC COME WAS devented at S 30 cm. gray SILIC COME WAS devented at S 30 cm. gray SILIC COME WAS DEVENTED TO Cm. Gray END OF COME
Ship Mahya WAVE Cruise 67-08 Pubs. I Leg Sta. 4 Core No. 3PC	Lithologic Log	190-180 DIATON OOZE 1 10-180 1 10.180 SITUR OOZE 1 10.22 1 10.22 1 10.22 1 10.22 1 10.22 1 10.22 1 10.22 1 10.22 1 10.22 1 10.22 1 10.22 1 10.22 1 10.22 1 10.22 1 10.22 2 11.0 OOZE WITH WICHONOULES 2 11.0 OOZE WITH WICHONOULES 2 11.0 OOZE 2 11.0 OOZE 2 11.0 OOZE 2 11.0 OOZE 2 11.0 OOZE 2 11.0 OOZE 2 11.0 OOZE 3 11.0 OOZE 5 1 4.0 Interestion at 246 ca. 5 1 4.0 Interestion at 246 ca. 5 1 4.0 Interestion at 246 ca. 5 1 4.0 Interestion of 3 Y 6/4 pale olive; scaly created at 20.23 2 2 2 2 99 2 2 2 2 99 2 2 2 2 2 5 6 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

SMEAR SLIDE DESCRIPTIONS - M.H.O.I. SEDINENT CORES

Poge 1 of 3

Cruise 67 Leg 06 Sta. 6 Core No 4PC. 4 cm. Lat. 15-11-49'S Long. 75:34:51 W Depth 510 m Good Date Described 16MAR, 92by F.MILLS ation PERY CONTINENTAL MACCIN Detailed Description	0-16 SHRINKAGE VOID	16-106 SILIC 002E	interpolated light 10 Y 3/4 light oilve 10 Y 4/2 graylah oilve and 5 Y 3/2 dark oilve gray layers mainly on 2-10 cm. scale; some finer laminations present. Moderately dry distomaceous lutite Well preserved bivalve shells at 21-23 cm., 61-65 cm., and 106 cm.; layering is smaller scale and overall lighter in color above 45 cm.	106-112	SILIC-CALC GOZE/MICRONODULES S Y 2/1 black	Dry lutite Scattered shell fragments near top of unit		3Z00 OTEO-0711S	of 4/4, 4/1 olive and 5 If 4/2 olive gray; few regions of 5 If 3/2 dark olive gray	Day damen rich lutite Dark and very dry from 242-252 cm.; few small 10	125-133 cm. shrinkage void	2 66-17.	HIGHLY SILIC CLAY WITH DETRITUS	lawinated from 265-274 cm., and slightly lighter	Very dry lutite	core is dry and broken from 280-300 cm. S, irregular	345-402	SILIC-CALC OGZE Interbedded 5 Y 5/4 olive and 5 Y 4/2 olive gray	layers Ory lutite with lighter layers rich in diatons	vi			4
Ship MW Cruise Total Length 384 c Core condition 600 Physiographic location Lihologic	e e		4 4 4 6 4 4 4 6 1 4 4 6	1 0] (] (] (] (] (] (] (] (] (] (ן ן ן ן	۔ ۲	4	{	4	{ ·	4		Alpha	4	8 4 4	4	, , ,	4] 	\ \ \ \	100 H 001
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tion 87			SEDINENT TYPE	SILIC 00ZE	DIATOM GOZE	SILIC 00ZE	DIATOM OOZE	SILIC OOZE	DIATOM OOZE	SILIC OOZE WITH MICRO-	NODULES	DIATOM 002E	S111C 002E	SILIC OOZE WITH DETRITUS	SILIC 002E	MICRONODULES	SILIC OOZE WITH DETRITUS	DIATOM OOZE	SILIC OOZE	AND MICRO-			
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Cruise B1 Leg OB Sta. 7 Core No. 766C. 24 cm. Lat. 15° 18.92' S Long. 15° 37.23 W Depth 1092. GOOD Date Described Edwar 12. by P. MILLS ocation PEAU CANTINENTAL MARCHN	0-24 SILIC OOZE AND SILIC CALC CLAY WITH DETRITUS 5 Y 4/2 olive gray with abundant 5 Y 2.5/1 black mottled regions Black mottles as noted Very silty organic rich lutite with some sand 0-1 cm. shtinkage void					
Ship MW Crulse Total Length 24 Core condition Physiographic focation Lithologic Log		*	ևուդումու	արարադա	ւախատա	ուսուրուսու
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ttion He	SEDIMENT	SILIC OOZE SILIC-CALC OOZE / MICRO- NODULES	SILIC CALC DOZE HICHLY SILIC CLAY WITH DETRITUS	SILIC-CALC 002E SILIC-CALC 002E SILIC-CALC 002E SILIC-CALC 002E SILIC-CALC		
Ship: Expedit Leg No.	LEVEL	109	180	175 455 530		

SHEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Cruise 81 Leg 06 Sto. 7 Core No 5 PC. 2. cm. Lat. 15' 15,92' \$ Long 75' 37.25 WDepth 050 m. debp Date Described 22 Feg. 1e Mills cation PERU Cost NACL MARCIN.	0.24		5 I 3/2 dark olive gray becoming 5 Y 5/3 olive helper 12 cm	Silty lutite with common 5 Y 2.5/1 black flecks and particles (pebble size) Top 15 cm. disturbed by drying S. desiccated irregular	24-32 SILIC 0028 S Y 2.5/2 black	Common 5 Y 5/3 olive mottles	Scattered pubbles 27-29 cm. G. Arzenlar	32.58		Few 5 Y 5/3 olive mottles at 37-38 cm.; scattered 5 Y 3/2 dark olive gray mottles above 50 cm.	Silty lutite becoming coarser near unit base S, I 10°	28-90	SILIC 0028 5 Y 4/3 elive (elightly lighter than above)	Faint 5 T 5/3 morties Silty lutite	Fossil fragment at 85-86 cm.; 5 Y 4/2 olive gray mottle at 73 cm. (silty)	o :	90-126 SILIC OOZE	5 Y 5/2 and 5/3 olive gray/olive Scattered 5 Y 4/2 olive gray mottles/bands below	105 cm. Silty lucite	8, 1 15°				
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Detailed Description Expedition 67 Lig 0028 The first secretary active grow mettles/flecks from 127 cm. 128 The cm. 3 Y 3 olive groy mettles/flecks from 127 cm. 127 cm. 127 olive groy leadents/one at 127 cm. 127 olive groy leadents/one at 127 cm. 127 olive groy leadents/one at 127 cm. 127 olive groy leadents/one at 127 cm. 127 olive groy leadents/one at 127 cm. 127 olive groy public mettles because at 127 olive groy leadents/one at 127 cm. 127 olive groy leadents/one at 127 cm. 127 olive groy leadents/one at 127 cm. 127 olive groy dry; lead				İ	Ino				5	-	3	TR	2	2	2	s	4								
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Description IIIC OCE Y 4/2 olive gray mottles/flecks from settered 3 Y 5/2 olive gray mottles/flecks from 119-118 cm. 119-11		87 87	99 P				EN TE		320	02E	DZE	OZE	320	320	370	OZE	SILIC								
Description IIIC OCER Y 4/2 oilve gray mottles/flecks from 134-136 cm. 134-136 cm. cm. 3 Y 5/2 oilve gray laminations at 127 cm. cm. 3 Y 5/2 oilve gray laminations at 127 cm. cm. 5 Y 5/2 cm. cm. 5 Y 5/2 cm		ا <u>ه</u>					SEDIA		LICO	0 217	0 217	0 217	0 217	0 217	0 317	0 21	CHLY AX								
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Detailed Description ILIC COZE 134-136 ca. Lity luctee becoming very siley below 140 ca. 134-136 ca. Lity luctee becoming very siley below 140 ca. 15 y 5/2 olive gray laminations at 127 at 2 olive gray laminations at 127 at 2 olive gray siley fragmented luttee matrix containing sty siley fragmented luttee matrix containing spebbles and stones and tis very dry; largest atone at 147-150 caesaures 2 cm. x 3 cm.	i	E S	يّ	ļ			רבּאנּוּ		7	20	28	45	9	8	21	13	150								
•		Detailed Description		465	* * *		134-136 cm. Silty lutite becoming very silty below 140 cm. 1 cm. 5 Y 5/2 olive gray laminations at 127 cm. 6.	152 Highly stlic glay 5 Y 4/2 olive gray	Very sirry respenses furite matrix containing pabbles and stone		AGC AG														

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Page 2 of 2

Ship: MM Core	Expedition 82	Leg No. 08 Total	EST1	inorganic Material	SEDIMENT TYPE TATAL STATE STAT	Z ~	~	28 SILIC GOZE 10 4	SO LITTH DEPOTE 20 15															
Ship MW Cruise 27 Leg OB Sta. 6 Core No. 5 SC. Total Length 50 cm. Lat. M. ST. 96. 2 Long. 15:39.23 W Depth 135 m. Core condition 600P Pers. Date Described 147m. 12 by P. MILLS Physiographic location PREM GNINENTAL MARKIN	Lithologic Log	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	0-26	olive gray with splotches of 5 Y 5/2	Sir Slightly silty very diatomaceous laminated lutite Two extremely diatom rich layers at 9 and 10 cm. 26.34 Lift COZE Sir A 372 dark of the green with litters	4	•	34.58 CTITE OVER STREET PROPERTY AND STREET	5 Y 42 oldwar gray with faint variations in value	Chroughout	Slightly slity distomaceous lutite Distinct beds wisible but faint; thin distom rich		END OF CORE									· ·		
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Silicoflagellates

Blogenous Material
Calcareous Siliceous

ESTIMATED ABUNDANCES (X)

Total Core Length

Core No. 5 SC Station No. ___ 8

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Page 1 of 1

VISUAL CORE DESCRIPTION

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Expedition 87 Static Leg No. 08 Total Leg No. 08 Total Leg No. 08 Total Leg No. 08 Total SEDIMENT TYPE SEDIMENT SEDIMENT SEDIMENT 1 STILIC-CALC Detrited The Sand MITH DETRITUS 20 10 2 27 DIATON OOZE WITH 15 4 4 Colites Shorts Start Colites SILIC COZE 6 8 1 3 3 5 5 7 1 1	
Ship MM Cruise D7 Leg OB Sto. D Core No. 5 BC. Total Langth 41 cm. Lat M. 1918. 1 Long 1579.12 W Opph 155 m. Core condition 6000 D. Core condition 10	

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

VISUAL CORE DESCRIPTION

Silicoflagellates

Biogenous Material
Calcareous Siliceous

ESTIMATED ABUNDANCES (%)

Total Core Length Station No. 8

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Above 463 cm., unit appears to be small blocks of reworked sediment slump altered? Below 463 cm. unit is very finely laminated down to 477 cm. Distonaceous layers concentrated in the intervals 354-360 cm., 365-370 cm., 397-401 cm., and 390-Greater abundances of diatons noted from 210-213 where some avidence of reworking appears again cm., 226-241 cm., 269-285 cm.; large chalky shell fragment at 208 cm.; shrinkage void 279-Core No 6 PC 5 Y 3/2 dark olive gray, 5 Y 3/1 very dark gray and 5 Y 6/3 pale olive. Unit is mottled/mixed and appears to have some Silty lutite with scattered incomplete/deformed 5 Y 4/2 olive gray and 5 Y 3/2 dark olive gray Silty lutite with semi-stratified diatom rich 5 Y 3/2 dark olive gray with faint variations Finely leminated silty lutite Silty lutite with regions of finely laminated SILIC OOZE WITH DETRITUS AND MICRONODULES 391 cm.; shrinkage voids 428-434 cm. HIGHLY SILIC CLAY WITH DETRITUS Detailed Description Leg 08 Sto. 9 slump or slide features SILIC COZE WITH DETRITUS SILIC COZE WITH DETRITUS distom rich sequences diston rich sediment 5 Y 3.5/2 olive gray G, textural regions 282 cm. 164-290 354-439 439-499 290-354 Cruise 57 Ship MW

Page 2 of 3

VISUAL CORE DESCRIPTION

6 PC

Page 1 of 3

VISUAL CORE DESCRIPTION

Cruise 81

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Silicoflagellates

Ship: M Expedition	SEDIA LEVEL TYS TSILICAC 2 OOZE WI MICRONO	19 002E 24 002E MI 81LIC-C 24 002E MI MICRONO 45 MITH DE AND MIC		
Ship MW Cruise 67 Leg 06 Sto. 9 Core No. 6 BC. Total Length 41 cm. Lat. H°9939 5. Long 15:50.69 W Depth 285 m. Core condition 6000 Date Described 214 M. 12 by P. MILLS Physiographic location FEQ. CONTINENTAL MARCHN Lihologic Lihologic Log	21.0	40 ser 21-29 \$11.00-CALC GOZE WITH MICRONODULES \$ 13.100-CALC GOZE WITH MICRO-CALC G	SILIC COCE WITH DETRITUS AND MICRONODULES 5 Y 3/2 dark olive gray with fine lighter and darker laminations Common small 2.5 Y 4/2 dark graylah brown mottles Silty lutte (finer than above) with diatoms and scattered organic bits Laminations are not horizontal but show wavy and inclined structures	

CORES
SEDIMENT
W.H.O.1.
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DESCRIPTIONS -
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VISUAL CORE DESCRIPTION

Core No. 6 BC

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Expedition 87	0. 08			SEDIMENT		SILIC-CALC OOZE WITH	MICRONODULES	SILIC-CALC 002E	SILIC-CALC	MICRONODULES	SILIC OOZE	AND MICRO-								
Exped	Leg No.			LEVEL		2		19	24		45									

Ship: MW Core N Expedition 87 Statio	SEDIMENT SEDIMENT TYPE TYPE SCOTTES	10 SILIC OOZE 10 WITH WICRO- 15 20 20 10 DETRIUS 10 HIGHLY SILIC 10 CALC CLAY / 20 30 11 HIGHLY SILIC 11 HIGHLY SILIC 12 HIGHLY SILIC 14 HIGHLY SILIC 15 HIGHLY SILIC 16 HIGHLY SILIC 17 HIGHLY SILIC 17 HIGHLY SILIC 18 HIGHLY SILIC 19 HIGHLY SILIC 10 HIGHLY SILIC 11 HIGHL	98 GLAY / MICRO- 10 35 11 NODULES NODULES 170 WITH MICRO- 20 25 11 NODULES AND DEPRITUS SILL GOOZE 171 SILL GOOZE 172 SILL GOOZE 173 SILL GOOZE 174 SILL GOOZE 175 SILL GOOZE 175 SILL GOOZE 175 SILL GOOZE 175 MICROMONITS	\$1 \$1	
Let 16-20.0'S Long 15-60.0 W Depth 2400 m with Date Date Described 14PRILTDy P. MILL'S PERV CONTINENTAL MARGIN	SILIC GOZE WITH MICROMODULES AND DETRITUS 10 TR 3.5/2 dark elive gray with bands of 10 YR 2.5/2 black Dry firm lutice with sile and small crystallized bits, particularly in dark bands 0.3 cm. shrinkage wold, slightly disturbed 3.10 cm.; darker bands are drier and more brittle than lighter regions. Much of this core shows a fractured texture with orientation subparallel to stratification (large flat stone at 70 cm. \$ 5.	HIGHLY SILIC CLAY/MICROMODULES WITH AUTHICENIC CRYSTALS CRYSTALS 2.5 % 4/4 olive brown 4.5% day siley material with abundant crystallized bits Crystalline material is reddish brown	SILC COZE WITH MICROMODULES AND DETRITUS 10 YR 3.5/2 dark olive gray with bands of 10 YR 2.5/2 black Actiling, if present, is difficult to distinguish due to everall drynass and brittlenses of mud but siley lutice with periodic incresses in crystalline material and small white flacks Dark bands are generally 1-3 cm. in thickness and	concentrated in the following regions: 164-166 cm., 209-215 cm. 248-249 cm. and in several other less distinct locations	
Ship MW Cruise Total Length 282 cm. Core condition 600P Physiographic location Lithologic Log	<pre>{</pre>		-	₹	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

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Authigenic Crystals

Silicoflagellates

Biogenous Material
Calcareous Siliceous

ESTIMATED ABUNDANCES (x)

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Total Core Length

Station No. __ Core No.

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

VISUAL CORE DESCRIPTION

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Radiolasfia

Discoasters

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Clay

Pteropods **Sffssolonns**M

Ship: MA	Itlon 87	Leg No08Total	1153	inorganic Material	Sa)	Tathtal tayp tayp tayp tayp thoronous flooring toolices toolices	2 22		20 CALC CLAY WITH 20 15	DETRITUS AND MICRONODULES									
Ship MW Cruise 87 Leg 08 Sto. 6 Core No. 7 BC. Total Length 24 cm. Lat. 15.11.49.3 Lov., 75.34.51 W Depth 500 m. Core condition 6700P Date Described 28AML, 32by F. MILL'S Described 28AML, 32by F. MILL'S Described 28AML, 32by F. MILL'S	Lithologic		0.0 0.9 CITTE-CALC COSE UTTL MICHONOMITES	10 S Y 4/2 olive gray with 3 Y 5/2 mettles/spletches. Lighter mettled regions not thought to be original	Silty diatom rich lutite with common forms.	20 - Let 9.24 HIGHLY SILIC-CALC CLAY WITH DETRITUS AND MICRONOBULES	5 Y 4/2 olive gray Scattered 5 Y 5/2 olive gray mottles	Slightly silty lutite	END OF CORE	· • • • • • • • • • • • • • • • • • • •	777		•••		···				

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Blogenous Material
Calcareous

ESTIMATED ABUNDANCES (%)

Total Core Length 24

Station No. 6 Core No.

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Page 1 of 1

VISUAL CORE DESCRIPTION

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Ship: Core No.	Expedition 87 Station No.	Leg No. 08 Total Core Length	ESTIMATED ABLANDANCES (%)	Ingraphic Materi	1 S S S S S S S S S S S S S S S S S S S	ופּאפּר	 									
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Silicoflagellates

Biogenous Material
Calcareous Siliceous

SMEAR SLIDE DESCRIPTIONS - M.H.O.I. SEDIMENT CORES

VISUAL CORE DESCRIPTION

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RE DESCRIPTION Page 2 of 2	238-27	Some diatom rich features, folded stratigraphy? Moderately S. 272-290 SILIC COZE WITH DETRITUS 5 Y 3/2 dark olive gray and 5 Y 5/3 olive bands Dry siley lutite Section has semi-stratified appearance END OF CORE	•		4
VISUAL CORE	Ship MW Cruise Lithologic Log Zoo Secrien	\$2 28 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	FNP of CASE		п
: DESCRIPTION Page 1 of 2	Cruise 67 Leg CB Sta. 10 Core No 9PC Cor. Lat. 15°20.0'S Long. 15°50.0'N Depth 2100 m. FAIR. Date Described ZAFALL'92 by P. MILLS. ation PERU CENTINENTAL SHBLF O-15 SILIC DOZE WITH DETRITUS AND MICRONODULES 9 Y 3.5/2 dark elive gray becoming slightly Inghter below II cm. For unctiles noted near color change Silty luttle, seconds model	40-82 SILIC OOZE WITH DETRITUS 5 Y 3/2 dark olive gray Faint mottling? Silty lutite, becoming dry 82-102 SECTION HISSING	102-117 SILIC OOZE WITH DETRITUS AND MICROHODULES 5 Y 3/1 wery dark gray Dry brittle silty lutite Large 5 Y 6/4 pale olive feature at 107-112 cm. With some 10 YR 6/8 brownish yellow near top Moderately 5. 117-217 SILIC OOZE WITH DETRITUS	2 1 4/2 olive gray with small regions of 5 % 6/3 pale olive riestal Dry slity luttle with apparent increase in diatons Color changes are random and do not occur as Color changes are random and do not occur as botizontal stratigraphy; small stone at 134-136 cm.; some inclined features may be slumped atratigraphy 217-238 SECTION MISSING	
VISUAL CORE	Ship AW Cruise Total Length 290 cr Core condition FA Physiographic location Lithologic Log Log SECTION SECTION	\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\	26.710N N155.140	**************************************	4 4

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Cruise 87 Leg 06 Sta. 10 Core No. 6 BC. 18 cm. Lat. 5:20.0'S. Long 15:50.6'W Depth 2650 m murr. FAIR. Date Described 3 MRL 12 by P. MILLS location. PERV CONTINENTAL MARKIN.	0-18		SY 6/3 pale olive splotches/mold? - not original features Slightly silty diston rich lutite	END OF CORE		-																
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Ship: MA B7 Expedition 87 Leg No. 08			SEDIMENT	IYPE	SILIC OOZE	AND MICRO-	SILIC OOZE	SILIC OOZE WITH DETRITUS	AND HICRO- HODULES	SILIC OOZE WITH DETRITUS	SILIC OOZE WITH DETRITUS	SILIC OOZE WITH DETRITUS										
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SHEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

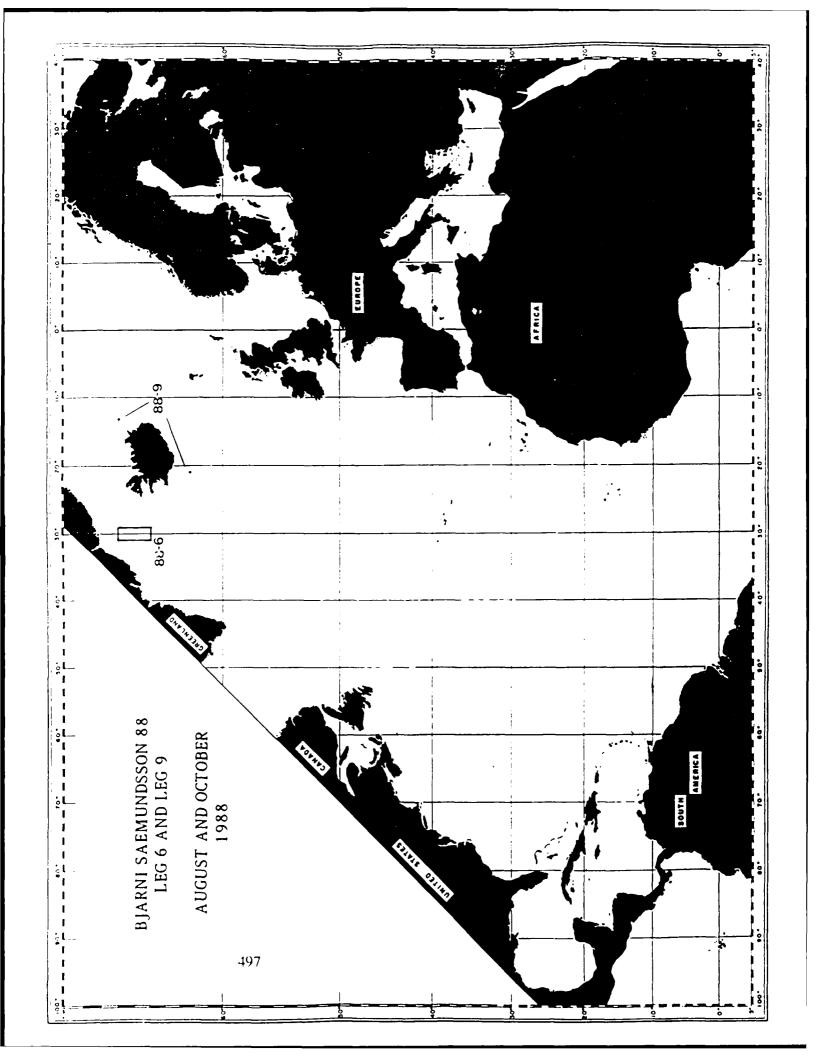
CORE DESCRIPTION	Cruise 87 Leg 09 Sto 112E Core No 7 5C Core Core No 1 5C Core Core No 1 5C Core Core Core No Depth 21 MILES COOP	PERU CONTINENTAL MARCHY			0.28	SILIG COZE WITH DETRITUS S Y 50 live and 5 Y 5/2 clive gray with a	Faint but common 10 TH 5/2 grayish brown sottling Slightly silty lutite with some diston rich regions of a minthly disturbed above 11 cm.	28.37	5	Slightly silty very distonaceous lutita S.	37-46	SILIC OOZE WITH DETRITUS 5 Y 4/2 olive grey with lighter and darker	leminations Slightly slity distom rich leminated lutite	Noderate y S.	46-61.5 SILIC GOZE/DETRITUS	5 % 4/2 olive gray with slight reddish brown cast as in top unit	Slightly silty faintly laminated lutto	TOCOLOGICAL ST.	SILIZ COZE WITH DETRITUS	laminetons with many lighter and darker	5 X 5/4 gray clay bed at 72-73 cm. with one thin	orrag Etay rayer pinching out at edge	END OF CORE			
VISUAL	Ship MW Core condition	Physiographic location	Lithologic	0	ς { ····		938£138£	SSTITCOETIS	٠ ا ا	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	# \\ \\ \\ \ \	END of con	· · · · · · · · · · · · · · · · · · ·		1	''				·····	11		<u>-</u>	-]		
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SHEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES		Ŧ	Expedition 87	. O8			SEDIMENT	3	SILIC OOZE	AND MICRO	SILIC-CALC CLAY/DETRITUS															
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- U KI I	0-23 HIGHLY SILIC CLAY/DETRITUS	5 Y 4/2.5 olive but brownish below 5 cm.	Scattered grayish mottles/splotches due to mold? not thought to be original features	laminated laminated Pale olive layer at 5-6 cm.; 5 % 5/1 gray clay layer at 12-13 cm.; pale olive lamination at 15 cm.; few authigenically formed? crystals specially at 6-7 cm.	23-31 DIATOM 002E	5 Y 5/3 olive and 5 Y 6/3 pale olive Very discembence lawfraced juries		31.40 SILIC OOZE WITH DETRITUS	5 Y 5/3 olive Diston rich lutite; some laminations		40-44 HIGHLY SILIC CLAY/DETRITUS	5 Y 5/3 olive Silty lutite	Scattered authigenically formed crystals	END OF CORE									
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THANK YOU FOR USING PROGRAM MUDDIE.

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THERE WERE 2 ITEMS THAT MET YOUR REQUIREMENTS.

THANK YOU FOR USING PROGRAM MUDDIE.

SHEAR SLIDE DESCRIPTIONS - M.H.O.I. SEDIMENT CORES

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VISUAL CORE DESCRIPTION	Cruise 88-6 Leg 1 Sto. 1 Core No. 2 GGC. 52 cm. Lot. 67' 14.61' N Long 31' 31' 65' W Depth 564 m Long. GOOD Date Described (1201, 138 by R MILLS.) location GREENLAND - ICE LAND FASIN Detailed Description	 	19-52 SILIC GLAY/DETRITUS 2.5 Y 3/2 very dark graylah brown Silry compact lutica Scattered to common pabbles throughout END OF CORE			
VISUAL	Ship BS Cruise Total Length 52 ci Core condition GO Physiographic location Lithologic Log	0 			END OF CREE	
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DESCRIPTION
SLIDE DESCRIPTIONS

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Core No.	Total Core Length	M			Clay	37	38	7	;	7			-					
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Ship: BS Expedition 88-6				SEDIMENT	ТҮРЕ	Silic-calc	Silic-calc clay/detritua	Silic clay/	Silic cley/	900								
Ship:	Leg No.				ונאנו	2	71	35	9									

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Ship: 1 Expedition Leg No	141 66 8 18 4 2 141 141 18 8 1 18 18 1 1 1 1 1 1 1 1 1
Cruise CA Leg 6 Sta. Core No 3 GAC 1/1/2 cm. Lat. 47° 24.57° N Lang 21° 12.51° W Depth 62° I m core GOOD Date Described 9 MN 120° by P. Mills Iscation GREENLAND - ICE LAND BASIN Detailed Description	O-41 HIGHLY SILIC CLAY WITH DETRITUS SY 3/2 dark olive gray Few 10 TR 3/4 dark yellowish brown mottles from 9. 13 cm. slicy luttie with common sponge spicules Large spenge fragment at 18 cm. G. The spenge fragment at 18 cm. G. The spenge fragment at 18 cm. G. The spenge fragment at 18 cm. G. The spenge fragment at 18 cm. G. The spenge fragment at 18 cm. G. The spenge fragment at 18 cm. G. The spenge fragment at 18 cm. G. The spenge spicules decreasing large 6 X 9 cm. rock removed 46.33 cm. EMD OF COME
Ship BS C Total Length 142 Core condition — Physiographic loca Lihologic Log	
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CJSY

Pteropods

Cthers

Biogenous Material
Calcareous Siliceous

ESTIMATED ABUNDANCES (X)

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142

Total Core Length

Station No.

Core No.

SMEAR SLIDE DESCRIPTIONS - M.H.O.I. SEDIMENT CORES

Page 1 of 1

VISUAL CORE DESCRIPTION

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Sh1p:	Expedit	Leg No.		w n n n n n n n n n n	
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6 4 E &	NACASCI AND AND AND		SILIC-CALC CLAY/DETRITUS 5 Y 4/2 olive gray Silty lutite with common to abundant sponge spicules Few regions actined with 10 YR 3/6 dark yellowish brown most notably at 2 cm. and 14 cm.; 0.2 ahrinkage void G. 29-107 SILIC CALC CLAY/DETRITUS WITH INCREASING	2.5 Y 32 very dark grayish brown Few black flecks below 90 cm. Silty lutite with common spicules becoming scattered below 50 cm. Few spicules appear below 60 cm.; silty lamination 10 YR 4/3 olive at 47 cm.	
Ship BS Cru Total Length 107 Core condition	Lithologic	Log			END # 001
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SPEAR SLIDE DESCRIPTIONS	BS	88-6			Ino	TYPE TYPE TYPE Solventies	tue 3	80	Silic clay/ detritus 32	Calc silic	Silic clay/												_
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Sh1p:	Expedition	Leg No.			TENET		9		30		70	82	120												
Cruise B3-6 Leg 1 Sta 5 Core No 5c GGC 57 cm. Lat \$10551 bl Long 205424 w Depth 713 m cm. GOD Date Described MM1122 by P. Muss ocation GREENLAND - ICELAND BASIN	Detailed Description		0-36 CITAC-CARC AND AND VENE	5 Y 4/2 alive gray	spicules noted Top 1 cm. is stained with 10 YR 3/4 dark yellowish brown; 0-6 cm. disturbed	36-154	very dark grayish brown Silty lutite with scattered spicules disappearing	Very silty lamination at 82 cm.; silty region at	124-128 cm.	SLT FIND OF CORE			-												
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Clay

Biogenous Material
Calcareous | Siliceous

ESTIMATED ABUNDANCES (X)

Total Core Length

Station No. Core No.

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Page 1_of_1

VISUAL CORE DESCRIPTION

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SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

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Sto. 6 Core No 6 GGC	_	Date Described M.MW. 1229 by	S. KELAND BASIN	
Cruise 68 Leg	n. Lot. 67 . 64.71 'n	Pot	CREENLAND.	
Ship 85 Cruise	Total Length 200 cm	Core condition Good	Physiographic location	Lithologic

ON CREENLAND RELAND BAGIN	Detailed Description	0-77 UNFOSS TO SLIGHTLY CALC SILIC CLAY/DETRITUS 2.5 Y 3/2 wery dark grayish brown Silty moist lutite G	77.82 SIJCHTLY CALC SILIC CLAY/DETRITUS 2.5 Y 3/2 very dark grayish brown Very silry lutite with sponge spicules G.	82-101 SILIC CALC CLAY/DETRITUS 2.5 Y 3/2 very dark grayish brown Silty moist lutite Few rocks and pebbles noted from 88-92 cm. G.	101.209 UNFOSS CLAY/DETRITUS 5 Y 3/1 very dark gray \$11ty compact lutite Shrinkage void 105.110 cm.	END OF CORE	
Physiographic location	Lifhologic Log						
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	1			Ino		zni	istinted isng	8	44		55		40	59	45						
BS	Expedition 88	o6				SEOTHENT	TYPE	Unfoss clay/ detritus	Slightly cald	detritus	Slightly cald	derritus	eilic calc clay/detritus	Unfose clay/	Unfoss clay/ detritus						
Shtp:	Exped	Leg No.				LEVEL		1	50		80		95	140	205						

CORE DESCRIPTION	Cruise PS-6 Leg / Sto. 7 Core No 766C 35 cm. Lat 61°24.16 N Long 20°51.35 Whites Good Date Described MMY 126 by P. Mills ation . GREENIAND - ICELAND BASIN Detailed Description 0.7 SILIC CALC CLAY/DETRITUS 2.5 Y 4/2 dark graylah brown Silty lutite with scartered spicules Sandy grains common above 5 cm.; 0-2 shrinkage c. 6.	7.10 SLIGHTLY SILIC-CALC CLAY/DETRITUS 5 X 4/2 olive grey with 10 'NR 3/4 dark yellowish brown Slity lutite with common spicules 6.	SALC-SILIC CLAY/DETRITUS 5 Y 4/2 olive gray Silty lutite with scattered spicules and pebbles G.	27-40 SLIGHTLY SILIC CLAY/DETRITUS 2.5 Y 4/2 dark grayish brown Very silty lutits with scattered pebbles and fev larger rocks Large rock from 35-37 cm.	40-97 UNFOSS CLAY/DETRITUS 1.5 Y 4/2 dark grayish brown Slightly slity moist lucits Common 10 TR 3/4 dark yellowish brown flecks S.	97-100 CALC-SILIC CLAY/DETRITUS 5 Y 4/2 olive gray Silty lutite with few spicules 5. 100-185		
VISUAL C	Ship B3 Cruis Total Length 185 Core condition G Physiographic location Lithologic Log							END OF CORE
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SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Core No. 7 GGC Station No. 7

Expedition 88-6

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Core No. 650c. 101 Length 49 cm. Lot 66.21.15 M Long 22.41.22 W Depth 36.2 m. cm. 101 Length 49 cm. Lot 66.21.15 M Long 22.41.22 W Depth 36.2 m. cm. 102 Described Reserved William Described Reserved Monthly Core Core 13.7 12.7 vory dark graylah brom small sulface of the core core core 13.7 12.2 vory dark graylah brom small sulface clay/darticus down core core 13.7 12.2 vory dark graylah brom small sulface clay/darticus down core core 13.7 12.2 vory dark graylah brom small sulface clay/darticus down core core 13.7 vory dark graylah brom small sulface clay/darticus down core core 13.7 vory dark graylah brom small sulface clay/darticus down core core 13.7 vory dark graylah brom small sulface clay/darticus down core core 13.7 vory dark graylah brom core core 13.7 vory dark graylah brom core core 13.7 vory dark graylah brom core core 13.7 vory dark graylah brom core core 13.7 vory dark graylah brom core core 13.7 vory dark graylah brom core core 13.7 vory dark graylah brom core core 13.7 vory dark graylah brom core core core 13.7 vory dark graylah brom core core core core core core core core	Ship: BS Core	Expedition 88 Stati	Leg No. 6 Total	11153	Inorganic Material		Petrital Grafices Grafites Foolites Shart	2 07	Unfoss clay/ detritus 45 TR 3	\$											
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Clay

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Biogenous Material
Calcareous Siliceous

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Total Core Length

Station No. _ Core No.

8 GGC

SMEAR SLIDE DESCRIPTIONS - N.H.O.I. SEDIMENT CORES

Page 1 of 1

VISUAL CORE DESCRIPTION

ESTIMATED ABUNDANCES (X)

Ostelled Described (MM, 1929 by CMLLE GREENLAND - JCELAND BASIN Detailed Description SIIGHTLY CALC CLAY/DETRITUS SIITY Intice with common pabbles throughout Few larger rocks above 10 cm.; large rock removed from bottom of core COSE		Ship: Expedition Leg No	SEDIMENT TYPE SIIGHTLY CALC CLAY/detritue CLAY/detritue			Solvent Series S	Solvent and the solvent and so
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Blogenous Material
Calcareous Siliceous

SHEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

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SEDIMENT
- W.H.O.1.
HEAR SLIDE DESCRIPTIONS
SLIDE
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()	10 • 64C 504 m mil.																			pebble at			2.3 I 3/2 Very dark graylsh brown clecks throughout			
	Shfp:	Expec	Leg No.	_			13A31			8	16	33	42	09	100	127										
SHEAR S	BS	Expedition 88-6	lo. 1				SEDIMENT	TYPE	Unfoce cley	detritus	Silic clay	Silic calc	Silic clay/ detritue	Silic clay/	Unfoss clay/ detritus	Unfose clay/ detritue										
SHEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES			!		Inog			fstin: srp	\dashv	82 1	25	30	4.5	45 10		09										
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Core No. 11A. Station No.	Total Core Length	ESTIMATED ABUNDANCES (%)	Inorganic Material Biogenous Silt & Sand Calcareous		seins s in seins s in seins seins seins seins seins seins seins seins se	festrised graphicsonod Zeolites Volcentics School School School School School	3 49										
Ship: BS Expedition 88-6	Leg No.				LEVEL TYPE		6 Slightly calc	<u> </u>									
GREENLAND - KELAND BASIN Details of Mults GREENLAND - KELAND BASIN Detailed Description	l		stienter out charpterius 2) Y J/2 wery dark grafish brown 2) twitte with accetand makhlas	slightly disturbed													
Total Length 14 cm. Lat. 66-19 Core condition FAIR Physiographic location CREEN Lithologic Des		0-14	2.5 Y 3/2	Slightly	END OF CORE				-		_		 	 		•	

Spondes

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Discossters

Biogenous Material
Calcareous Siliceous

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SMEAR SLIDE DESCRIPTIONS - M.H.O.I. SEDIMENT CORES

Ship: BS Core Expedition BB-6 Stati	SEDIE SEDIES STATES OF STA	80 / S0			
BS Cruise condition 39 c condition 6 condi	0 0-5 CALC-SILIC CLAY/DETRITUS 2.5 Y 3/4 dark olive brown Silty modes luttle Few pebbles noted; 0-1 cm. shtinkage void S. irregular S. 25 UNFOSS CLAY/DETRITUS 2.5 Y 3.5/2 very dark graylah brown Very silty luttle Silty regions common throughout Silty reg		39 cm END OF CORE.		

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Others

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33

Pteropods

effeedommeN

Forems

CIFA

Radiolaria

Biogenous Material
Calcareous Siliceous

ESTIMATED ABUNDANCES (X)

5

39

Core No. 12 GGC Station No. 11 Total Core Length __

Ship: BS Expedition 88-6 Leg No. 1	SEDIMENT SED	14 Unicos clay/ 60 7 Unicos clay/ 60 7 34 detritus 55 10		
Lat 4524.48' N Long 8'51.34' W Depth 656 m LTV. Lat 4524.48' N Long 8'51.34' W Depth 656 m LTV. Date Described 28N 1892 by P. MILLS GREENLAND - 1CELAND 8A5IN Detailed Description	SANDY CORAL MASH Control sand and coral hash with pebbles and stones Control becomes vertical and extends down to 24 cm. on one side 8, irregular UNPOSS CLAY/DETRITUS 10 TR 3/3 dark brown Very silty lutice with scattered pebbles 8.	UNFOSS CLAY/DETRITUS 2.5 Y 3/2 very dark grayish brown Very slity lutice Few lerge stones 29 cm., 34-36 cm.		
Ship B5 Cruise 86-6 Total Length 42 cm. Lat 4 Core condition 6000 Physiographic tocation GREE Lithologic Log		30	dontondonton	

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Biogenous Material Calcareous Siliceous

ESTIMATED ABUNDANCES (x)

Station No. 13
Total Core Length

Core No.

SMEAR SLIDE DESCRIPTIONS - W.H.O.1. SEDIMENT CORES

VISUAL CORE DESCRIPTION

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Ship BS Cruise BB-6 Leg 1 Sta. Core No 14 GGC.
Total Langth 31 cm. Lat. 65 91.19 N Long 80 67.6 W Depth 382 m ww.
Core condition Good Date Date Described 22 m 1280 by 2 M442
Physiographic location GREENLAND - ICELAND BASIN

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HIGHLY CALC CLAY WITH DETRITUS Unsorted sand/shell hash with pabbles and some larger stones Large stone at 3-4 cm.; large intact shell at 9-10 Detailed Description .

large stones concentrated at 12-14 cm. and below 28 cm. SLICHTLY CALC CLAY/DETRITUS
10 YR 3/3 dark brown
Silty lutite with sand, pebbles and few larger stones 8-31

END OF CORE

END OF CALL 3/6

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Core No. Ship:

SMEAR SLIDE DESCRIPTIONS - N.H.O.I. SEDIMENT CORES

Expedition 88-6

Leg No.

Total Core Length .. Station No.

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ESTIMATED ABUNDANCES (X)	•	3	el tesotonn e H	15		Ħ		Ĕ												
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	rasni	\$11¢	Micronodules	3		15		10												
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	SEDIMENT				detritus	Slightly cald clay/detritus	with micro- nodules	Slightly cald												
	LEVEL					41		67												

Coral frags. Sponges

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Page 1 of 1

VISUAL CORE DESCRIPTION

			<u>a</u>	<u></u>			
VISUAL CORE DESCRIPTION	Cruise 89-6 Leg 1 Sta 16 Core No 16 GGC cm. Lat. 65 22-75 N Long 2 57.36 W Depth 20.7 m Lerr. GGOD Date Described 22 MV 1890 by P. MILLS ation GREENLAND - ICELAND BASIN Detailed Description	0-2 8AFD/CORAL HASH Mixed Sandy shell/coral hash with pabbles and few larger etons Contacts extend down to 15 cm. hear liner addes	Irregular 2-27 UNFOSS CLAY/DETRITUS 10 YR 3/3 dark brown Very slity lutite with sand and scattered pebbles Sandy horizons at 3, 7-8 cm.; few lerger stones s.	27.86 UNFOSS CLAY/DETRITUS 2.5 Y 3.5/2 very dark grayish brown \$ilty/sandy lutite with common pabbles Larger stones scattered throughout but most notable at 44, 50-55 cm.	END OF CORE		
VISUAL CO	ા <mark>ના કે</mark> મેં.	0	2 0 0 X	15 of 15 of			
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Core No.	Station No.	Total Core Length	ESTIMATED ABUNDANCES (X)			CJey	8	4.5	6.3	2	8													
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1	1			Jug		Detrital salang	20	4.5	20	3														
BS	Expedition 88-6	lo1				SEDIMENT	Unfoss clay/ detritus	Unfoss clay/ detritus	Unfose clay/	Unfose clay/														
Shtp:	Exped	Leg No.				LEVEL	3	15	50	78														

1.00 T T T T T T T T T T T T T T T T T T	Ship: BS Core !	Expedition 88-6 Static	Leg No. 1	11183	Inorganic Material	Dues a 111c	sə	Type [63]	orsiM Ffo s S	5	Unfose clay/ 44 15 1	Unfose clay/	Uniose clay/ 46 8 1									
Ship BS Cruise 88 - 6 Leg / Sta. 17 Core No. 174 GGC Total Length 29 cm. Lat 65 M-15 M Long 90 60,55 W Depth 1011m Lem	location	Lithologic Log	00	0.27	10 TR 3/3 dark brown	Silty to sandy lutite with scattered pebbles Few large stones at coretop; 0.2 cm. shrinkage	s side	27-99 UNPOSS CLAY/DETRITUS	50 sir a Silty/sandy lutite with pebbles scattered	Core is slightly disturbed at intervals 37-50,58-	64, 92-99 cm.; few larger stones noted below 85	•	END OF CORE		GMD of Cork			 	••••	 	•••	

Spondes

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FORMS

Clay

3 3 2

Biogenous Material
Calcareous Siliceous

ESTIMATED ABUNDANCES (X)

Total Core Length

Station No.

Core No.

SMEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDIMENT CORES

Page / of /

	ESTIMATED ABUN	Detrital Mennofossites Mannofossites Mennofo	60 4 35 TR TR 1	50 clay/detritud 55 1 42 1 1								
Ship BS Cruise 88-6 Leg 1 Sta Core No 18 GGC Total Length 61 cm. Lat 45°22-53 N Long 36°22.19 W Depth 805 m serv. Core condition GGOD Date Described 23 W 1220 by 6 MILLS Physiographic location GREENLAND - ICELAND 9461M Lihologic Libologic O Log		Sandy gravel/coral-shell hash with many larger atons 9		64 cm 29-61 64 cm 2.5 Y 3.5/2 very dark grayish brown Very silty lutite with common pabbles Large rock 10 cm. X 10 cm. ramoved from 49-58 cm.	END OF CORE	 	· · ·		 	 -	 	

SMEAR SLIDE DESCRIPTIONS - M.H.O.I. SEDIMENT CORES

Page / of /

GREGNIAND - ICELAND BASIN Description Contact sandy gravel with many larger atones and few shall fragments Contact bends down at edges of liner to 22 cm.; 0- 3 void 8, irregular UNTOSS CLAY/DETRITUS UNTOSS CLAY/DETRITUS Larger stones noted at 11, 15, 19 cm. CORE

Spondes

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Radiolaria Distoms

Discoasters

Biogenous Material
Calcareous Siliceous

SMEAR SLIDE DESCRIPTIONS - W.H.O.1. SEDIMENT CORES

Page 1 of 1

Ship: BS	Expedition 88-6	Leg No.	SEDIMENT		Slightly cald														
Ship 85 Cruise 56-6 Leg 1 Sto. 23 Core No. 23 GGC. Total Length 56 cm. Lat 68'21 S4'N Long, 29'32-11 'w Depth 1008 m corr. Core condition 600D Date Described 21MT 1920by P. MILLS. Physiographic location GREENLAND-1CELAND SHELF.	Lithologic Description	1000 D		50 0 SLIGHTLY CALC CLAY/DETRITUS 10 YR 3/2 dark brown 50 0 Large stone noted at 12 cm.	<u> </u>	31-30	Very silty lutite with pebbles and common larger stones	END OF CORE	••••	•	••••		7***	*1*	••••	•••	••••	 •	

Sponges

Diatoms Others Discossters

pteropods

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Volcanic Shards

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Radiolaria

Biogenous Material
Calcareous Siliceous

Inorganic Material

ESTIMATED ABUNDANCES (%)

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Total Come Length _ Station No. 23

23 660

Core No.

SHEAR SLIDE DESCRIPTIONS - W.H.O.I. SEDINENT CORES

Poge 1 of 1

CALC CLAY WITH DETRITUS
10 YR 5/3 brown
Very silty lutite with acettered small
clay clasts and some sand
Large 2.5 Y 4/3 dark yellowish brown
feature at 100-103 cm./ very silty
lutite with sandy clasts CALC CLAY
2.5 Y 4/4 olive brown
Dry sandy gravel with some clay
Unit contains small stones and lumps of Detailed Description sandy clay END OF CORE 106-109 99-106 Lithologic Date Described 27 Fe. 12 by F. MILLS SLIGHTLY CALC CLAY WITH DETRITUS
10 YR 5/2 grayiah brown
Common 10 YR 5/4 yallowiah brown mottling
Slity lutite with scattered small clay
clasts SILIC-CALC COZE
10 YR 3.5/3 dark brown
Common to extensive 10 YR 3/2 very dark
grayish brown mottling especially above
12 cm. Unit coaraons downward; small stone at unit base; abundance of email clasts at 29-30 cm. CALC-SILIC COEE

10 YR 4.5/3 brown

10 WR 3.2 wery dark grayish brown

actiles balow 5 cm.

Silty lutite with abundant forams CALC CLAY WITH DETRITUS
10 YR 5/4 yellowish brown
5lity lutile with scattered forans and
some sand/ash
Large 10 YR 3/1 dark gray sandy ash lens Silty lutite with scattered small clay clasts and micronodules; scattered forems? CALC CLAY/DETRITUS
10 YR 5/4 yellowieh brown with faint verietions toward 10 YR 5/2 grayish Very silty lutite with some send and abundant forams S, mottled Common mottling and mixing noted throughout Detailed Description N.B. OF ICELAND Moderately 5 19-24 15-19 8-15 7 Physiographic location_ Core condition _ 0 END of CAR 60 Ö Lithologic H 0 Po 0 Q

8

Core No 452 666

Leg 9 Sto.

Ship B. SAEMMIRSON Cruise 86

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Page 1 of 2

VISUAL CORE DESCRIPTION

Ship B. Suprient Band Cruise

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Total Length 199

0

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Depth 1684 m

Lat. 61°25 N Long. 13°26 W

VISUAL CORE DESCRIPTION

Poge 2 of 2

SMEAR SLIDE DESCRIPTIONS - N.H.O.I. SEDIMENT CORES

cm. Lat 62°59.9 M. Long 21°31.9 W Depth 967 m. EXCELLENT Date Described 1844.92 by P. Milles	S.W. OF ICELA	Detailed Description	0-213 CALC-SILIC DORR WITH VOLCANIC SHARDS	5 Y 3/1 very dark gray	Mottling appears to be common but is only	resy samply recognized sectors required and resolution of coarser texture especially 58-60 cm., 110-120 cm., 311xy modet lutte with scattered forans large triangular void at core top due to shaintage; extends down to 15 cm., core is oxidized to 2.5 Y 3.5/4 dark olive brown at core top and near section	Dreeks.	END OF CORE											<u></u>				•		
Ship 6. SAEMWIDSAN Cruise Total Length 2-13 cr Core condition EX	Physiographic location_	Log	4	1	· ·		} 	سرا ه	 	10	> {	 	3 >	{ { 	; † ;	4	} }	o >	13	TEND OF URE		ىلىت	m	***	пт
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Shio: BJARNI SAEMINDSON	Expedition 88	6 .				SEDIMENT TYPE	CALC-SILIC	SILIC-CALC 002E	VOLCANIC ASH	SLIGHTLY CALC	DETRITUS	CALC-CLAY W/	CALC-CLAY W/ DETRITUS	CALC CLAY											
Seto:	Exped	Leg No.				ונאנו	2	11	17	21		99	9.3	109											

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